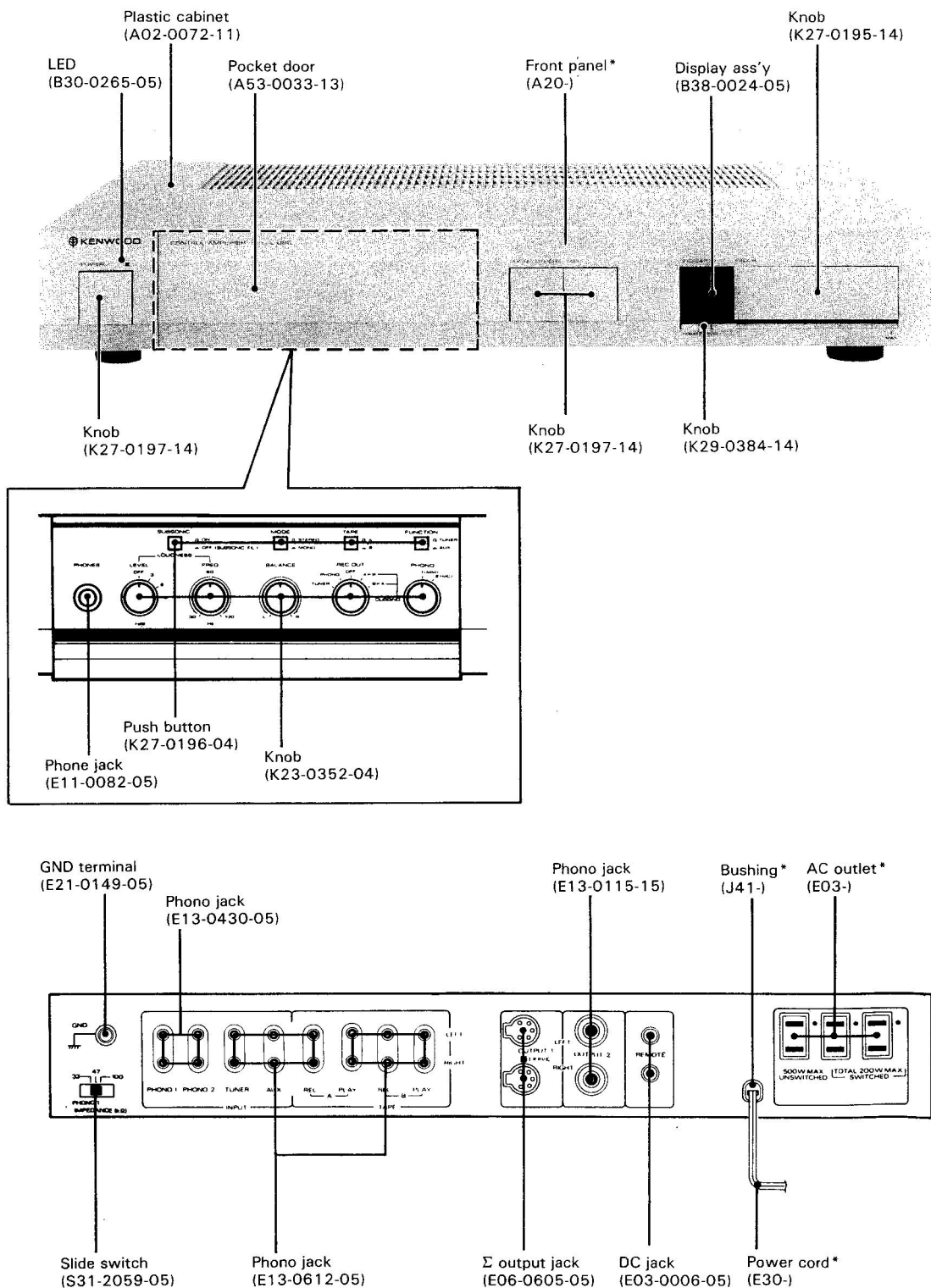


### CONTROL AMPLIFIER



\* Refer to Parts list. (P16)

## CORD STRINGING

### PRESET LEVEL KNOB

- 1 Tie the end of the string to the spring and hook the spring to the boss A and B of the volume pulley.
- 2 Insert and fix the volume pulley on the volume shaft and turn fully counterclockwise.
- 3 Wind the string one and half turn around the volume pulley starting from the upper side and dress the string in the direction 2 through 4.
- 4 Wind the string a half turn around the volume pulley starting from its lower side 5.
- 5 Fix the string to the clip.
- 6 Remove the spring from the boss B.
- 7 Confirm the volume control is turned fully counterclockwise (or at fully minimum position) and fix the preset level knob to the 0 position.

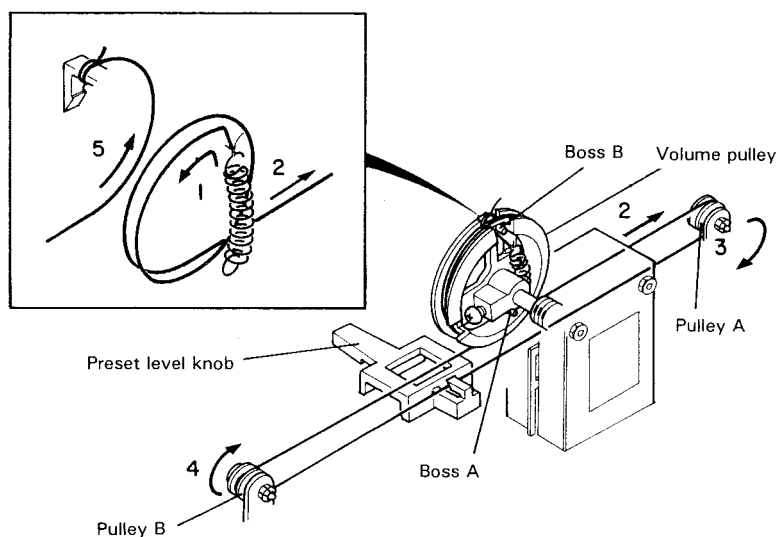


Fig. 1 Stringing preset level knob (rear view)

### CONTROL POCKET

- 1 Cord length: 23.5 cm
- 2 Cover the spring with the tube and hook the spring to the boss of the chassis.
- 3 Wind the cord two and half turns around the pulley of the air damper starting from its lower side.
- 4 Hook the loop of the cord to the boss on the pocket door.

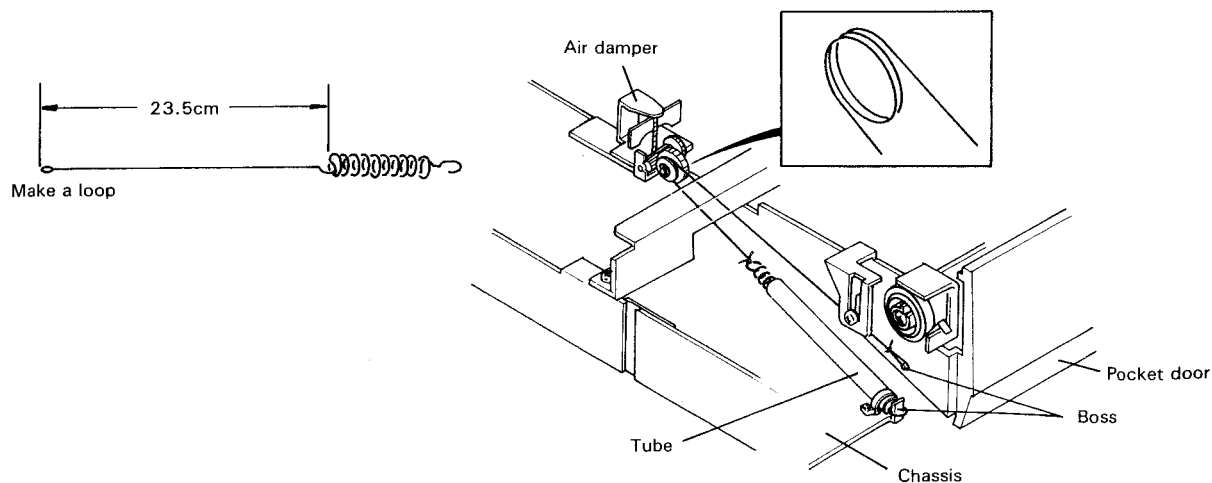


Fig. 2 Control pocket

## DISASSEMBLY FOR REPAIR

### KNOBS AND PANEL

1. Remove the case (Case is fixed by screws; Rear: one bottom: 2 screws.)
2. Push down the pocket door till it locks underside the unit. (Fig. 3-①)
3. Push the pawl of the power switch knob into the groove of the escutcheon. (Fig. 3-②)
4. Pull out the power switch knob. (Fig. 3-③)
5. Remove the LED (Fig. 3-④)
6. Remove the TAPE and PHONO/OTHERS knobs. (Fig. 3-⑤, ⑥)
7. Slide the PRESET LEVEL knob to 0 position (Minimum position). (Fig. 3-⑦)
8. Lightly lift the ends of the copper plate retaining FADER knob alternately and drag the knob out little by little in the direction of the arrow. The copper plate may come off when center of the plate is lifted. (Fig. 3-⑧, ⑨)
9. Remove the screws from the front panel (Fig. 3-⑩.); Top: 2 screws, Both side: 2 screws each.
10. Remove the screws on the front panel hidden behind the knobs from the front. (Fig. 4)

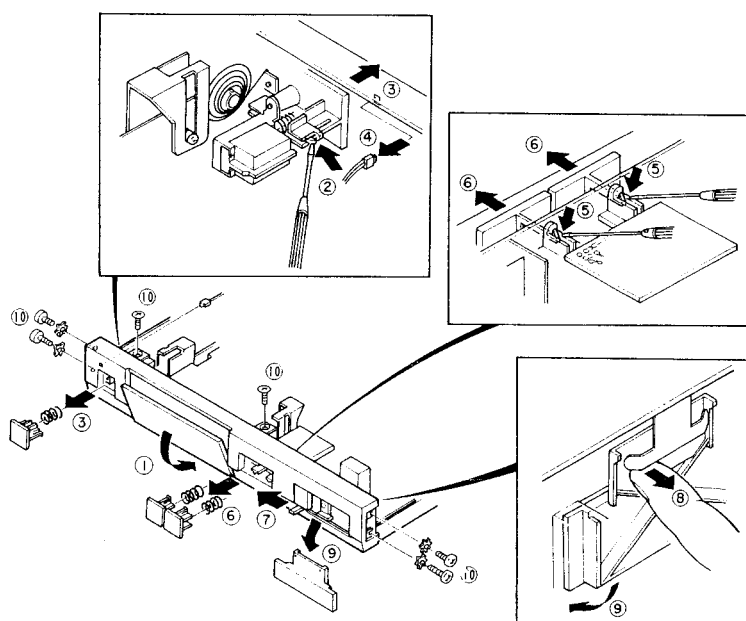


Fig. 3 How to remove knobs and panel (1)

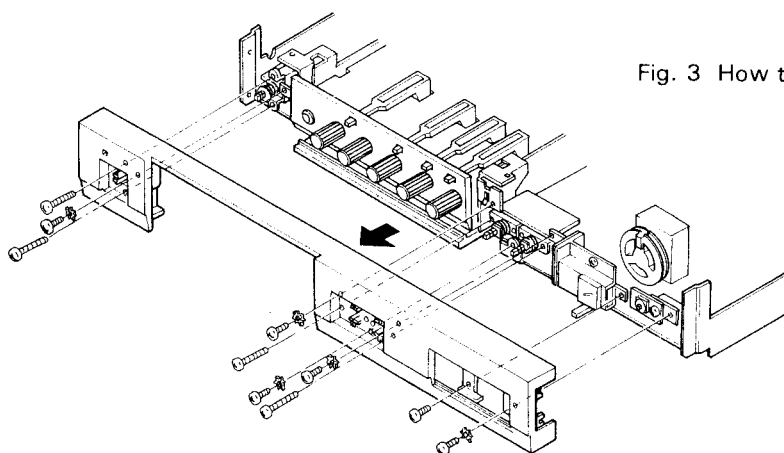


Fig. 4 How to remove knobs and panel (2)

## DISASSEMBLY FOR REPAIR

### CONTROL POCKET

1. Remove the front panel and knobs. (Refer to page 3)
2. Remove the string from the boss on the sub panel. (Fig. 5-①)
3. Remove the spiral spring. (Fig. 5-②)
4. Remove the screws from both side on the sub panel. (Fig. 5-③ ~ ⑥)
5. Remove the gear ass'y. (Fig. 5-⑦)
6. Free the spiral spring from the chassis pushing it with a screw driver. (Fig. 5-⑧)
7. Remove the pocket door in the direction of the arrow. (Fig. 5-⑨)
8. To reassemble logically reverse this procedure.

**Note:** Be careful not to miss the collar.

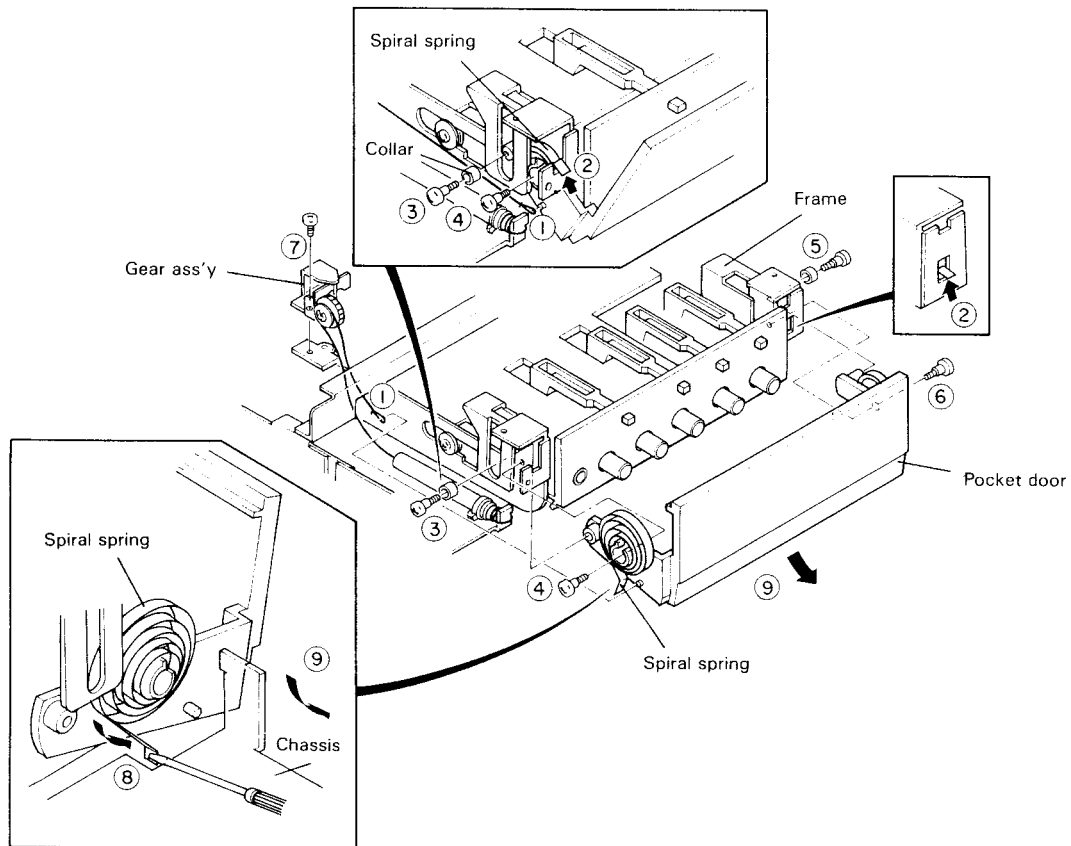


Fig. 5 How to remove control pocket

### SWITCH PCB ASS'Y (X13-2980-00)

1. Remove the front panel and knobs.
2. Remove the pocket door.
3. Remove the screws from the right side of the rear panel. (Fig. 6-①)
4. Remove the screw, on the preamp unit, from the frame (1). (Fig. 6-②)
5. Remove the screws from the frame (1) and (2). (Fig. 6-③, ④)
6. Remove the frame (1). (Fig. 6-⑤)
7. Remove the leads from wire clamber. (Fig. 6-⑥)
8. Remove the screw from the frame (2). (Fig. 6-⑦)
9. Remove the 2 screws on the bottom plate, from the frame (2). (Fig. 6-⑧)
10. Slide the frame (2) rightward and turn 30° clockwise.

**Note:** When removing the preamp pcb ass'y, be careful not to damage it by the projections of frame (2).



# DISASSEMBLY FOR REPAIR

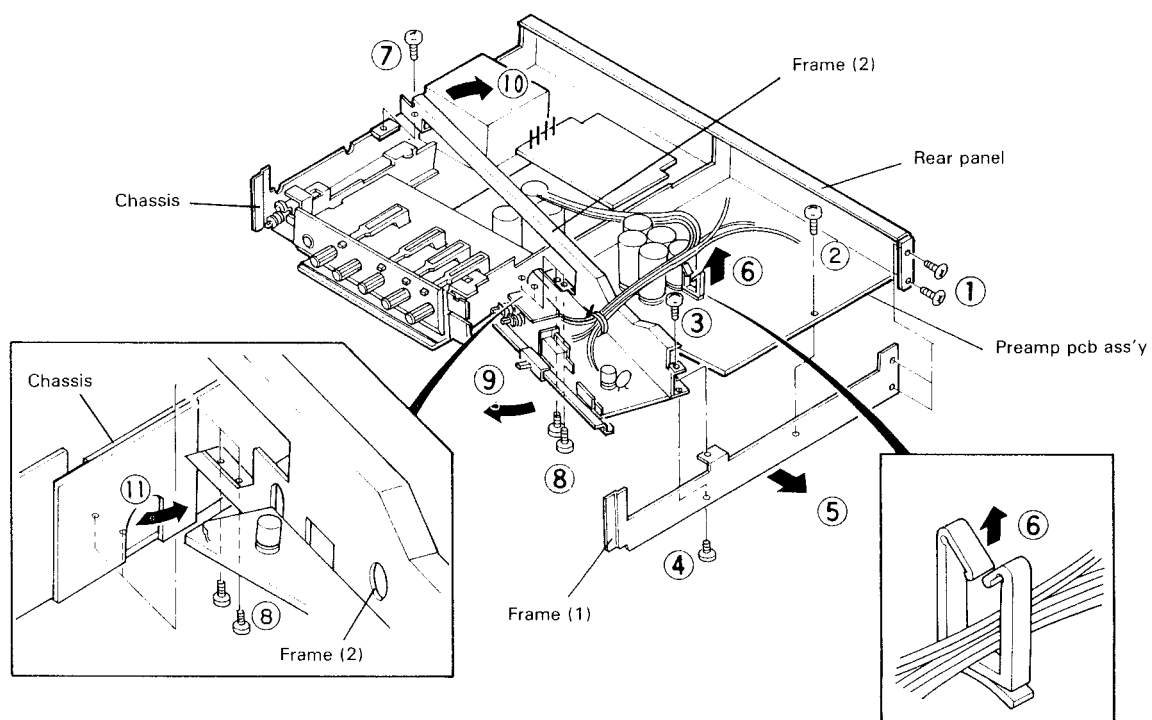


Fig. 6 How to remove switch pcb ass'y (X13-2980-00) (1)

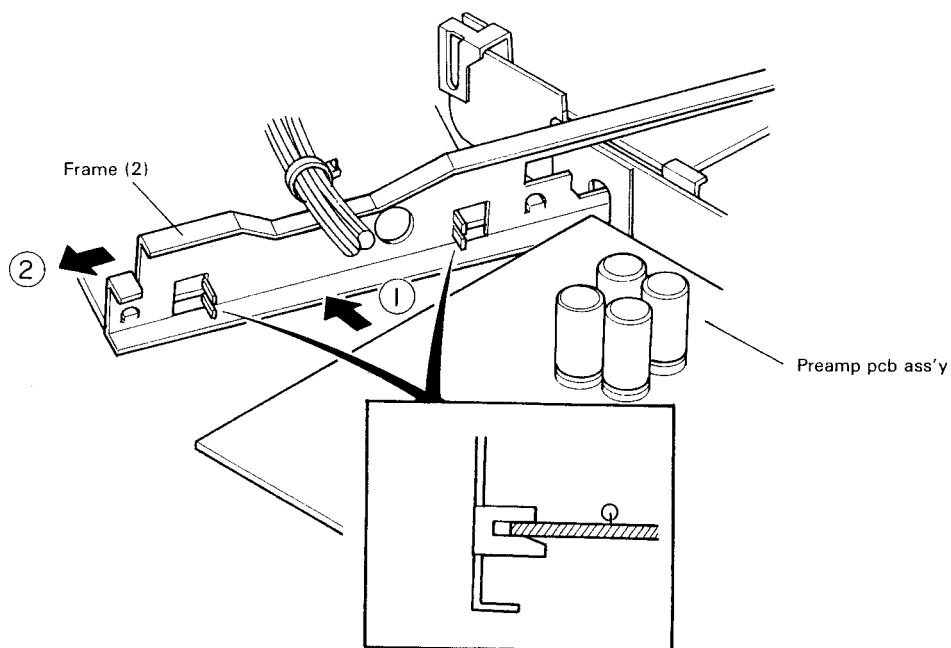


Fig. 7 How to remove switch pcb ass'y (X13-2980-00) (2)

# **DISASSEMBLY FOR REPAIR**

11. Push the front panel A inward. (Fig. 8-①)
12. Remove 2 pulleys (pulley B) on the left side. (Fig. 8-②, ③)
13. Remove the screws from the frame (3). (Fig. 8-④, ⑤)
14. Lift the left side of the front panel up. (Fig. 8-⑥)
15. Pull the frame (3) forward. (Fig. 8-⑦)
16. Pull the switch pcb ass'y forward and remove 2 pulleys (Pulley B) from the chassis: (Fig. 9-①)
17. Turn the switch pcb ass'y upside down. (Fig. 9-②, ③)
18. To reassemble logically reverse this procedure.

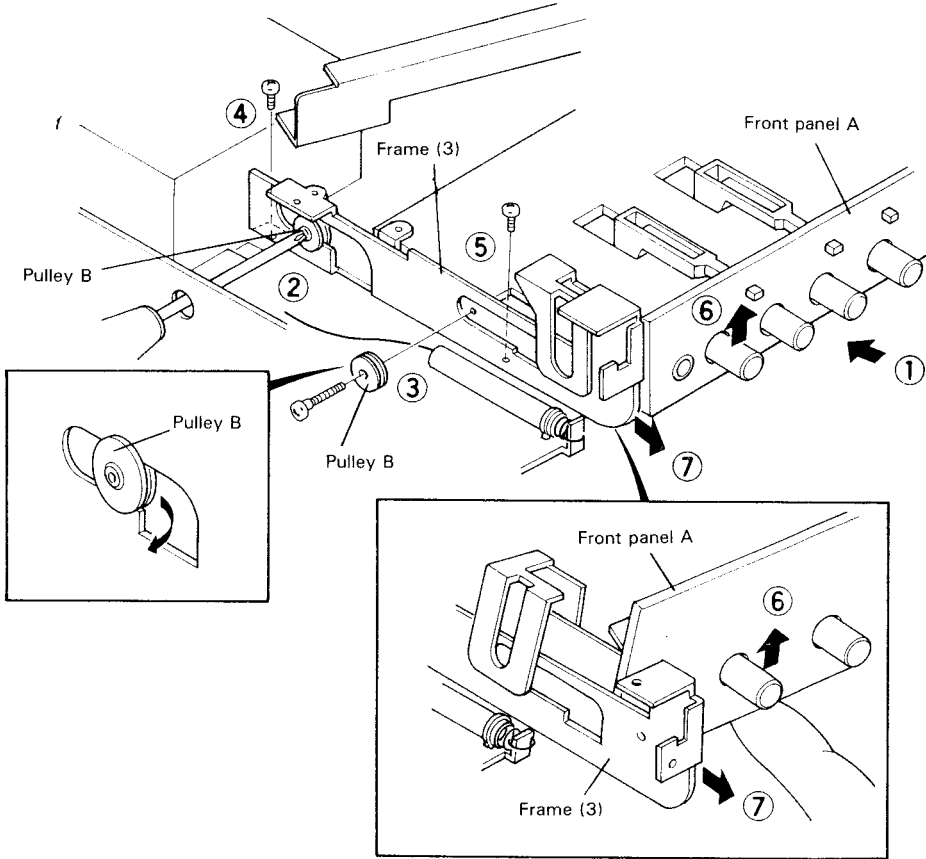


Fig. 8 How to remove switch pcb ass'y (3)

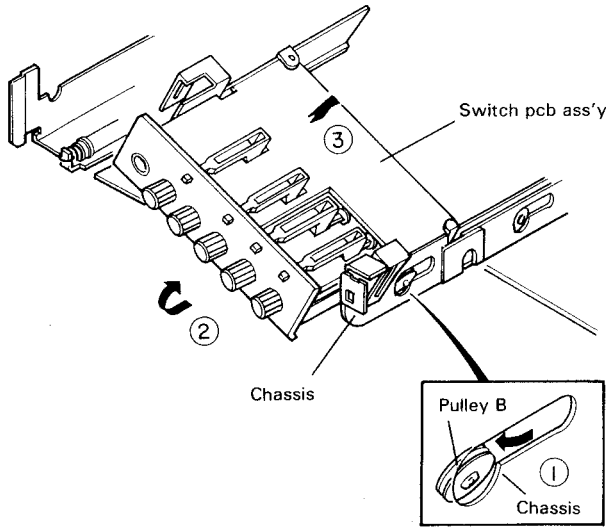
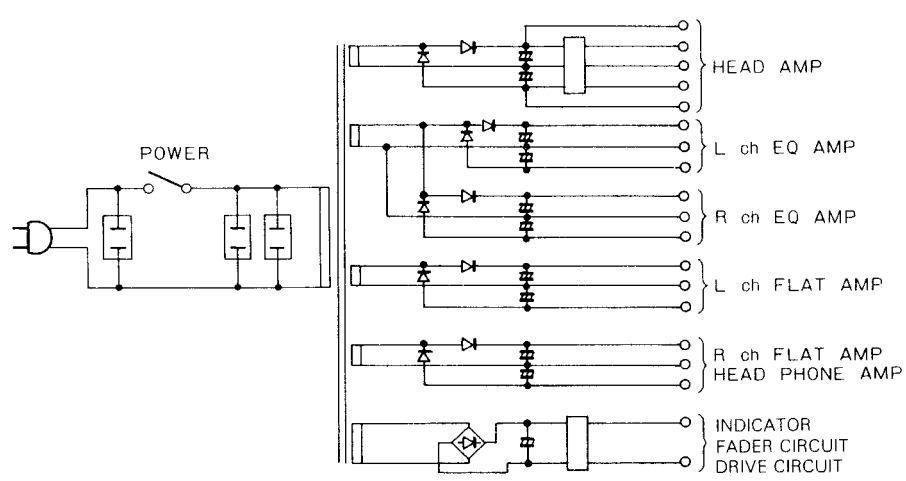
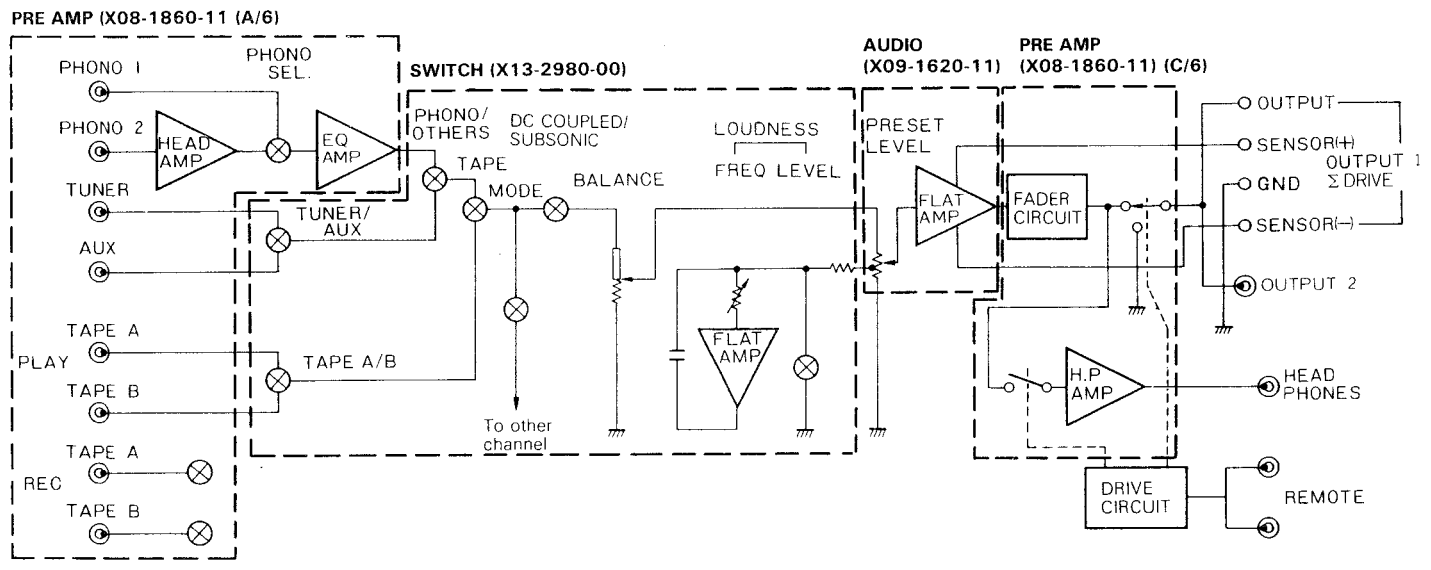


Fig. 9 How to remove switch pcb ass'y (4)

# BLOCK DIAGRAM



CIRCUIT DESCRIPTION

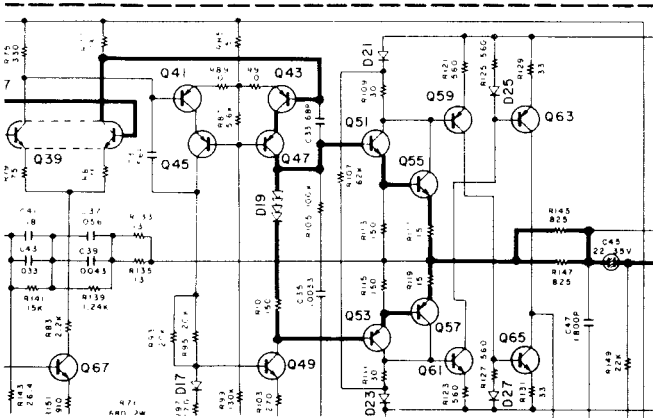
Current Absorbing Circuit

Feedback-type voltage regulators are generally used for pre-amplifier power sources. This type of circuit provides low source impedance, but does not compensate for impedance of power supply and ground lines between the source and the amplifier, both of which have a tangible effect on sound quality. Therefore, each preamplifier circuit (equalizer, flat amplifier) is provided with a voltage regulator and a thick copper plate which is used as a ground line to solve this problem.

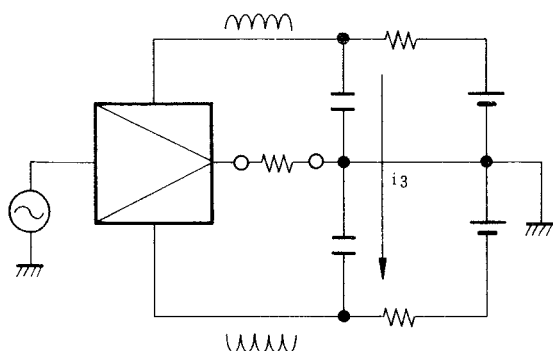
However, influence on tone quality caused by the signal current flowing through bypass capacitors and the ground line of the voltage regulator is still unsolved.

In the L-08C, a current absorbing circuit is provided in the final stage of each MM equalizer and flat amplifier to solve this problem.

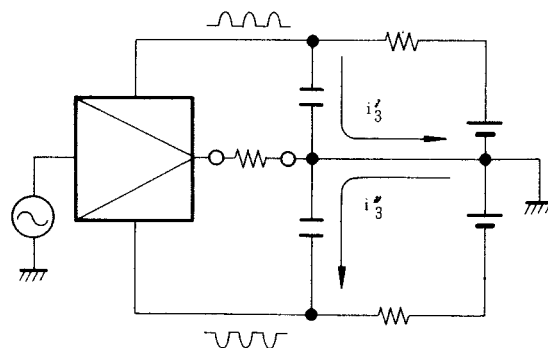
1. Equalizer



## CIRCUIT DESCRIPTION



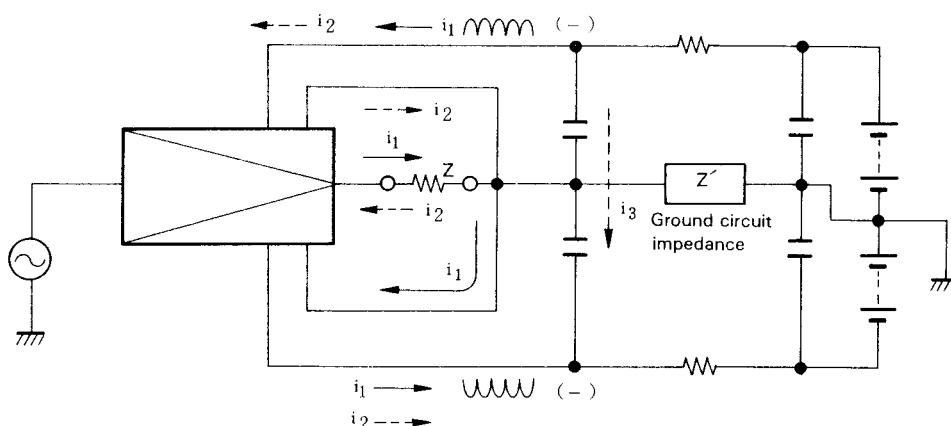
Circuit employed in the L-08C



Conventional circuit

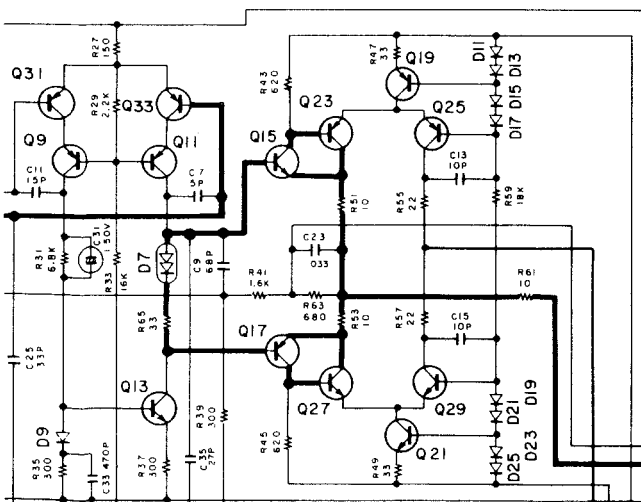
In the conventional circuit, current flows through each bypass capacitor to the ground circuit and this may influence the tone; when so, the tone may change when the capacitor

is changed. In the L-08C, these bypass capacitors have no influence upon sound quality.



### 2. Flat Amplifier

A current absorbing circuit using differential amplifiers is used in the final stage of each flat amplifier. Q19 and Q21 are the constant current transistors connected to the  $\oplus$  and  $\ominus$



sources, respectively. D11, D13, D15, D17, D19, D21, D23 and D25 are bias diodes.

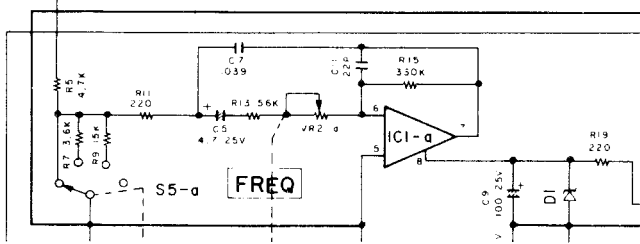
When the input voltage is positive, Q15 and Q23 collector currents increase. Since Q23 and Q25 form a differential amplifier, the increase in Q23 current is equal to the decrease in Q25 current. Therefore, the current of the  $\oplus$  source does not vary. Although the Q17 and Q27 currents decrease, the Q29 current increases so that the  $\ominus$  source current does not vary either. The output current flows through Q23, load Z and Q29 and does not flow through the ground circuit.

The circuit operates in a similar manner when the input voltage is negative: the increase in Q27 current is equal to the decrease in Q29 current and the decrease in Q23 current is equal to the increase in Q25 current. Thus, neither source current varies and no signal current flows through the ground circuit.

The flat amp has a light load compared to the equalizer circuit at high frequencies. Therefore, only class A operation may be considered for this current absorbing circuit for the same effect as that of the equalizer circuit.

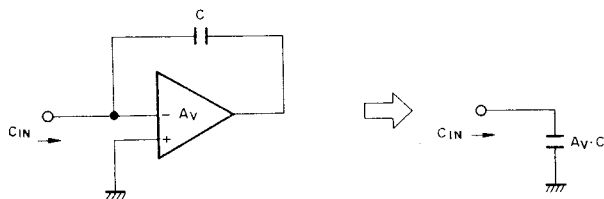
## CIRCUIT DESCRIPTION

### Loudness Control



The L-08C is not equipped with a tone control circuit; a variable frequency loudness control is used to control low frequencies.

The loudness level of this circuit is varied in 3 levels by selecting one of the three resistors. The section which corresponds to capacitor in an ordinary loudness control is a Miller circuit which uses a variable output operational amplifier.

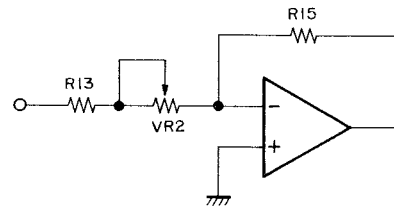


In the above figure, when capacitor C is connected to the parallel negative-feedback circuit, response is lowered at higher frequency levels. The input impedance of the circuit is capacitive and its equivalent capacitance is given by

$$C_{IN} = A_v \cdot C$$

where  $A_v$ : gain of amplification

Thus, equivalent input capacitance is large even if the capacitor used is small.



The equivalent input capacitance can be varied by varying the gain of amplification. In the circuit of the L-08C, the gain of amplification is

$$A_v = R15 / (R13 + VR2)$$

Therefore, equivalent input capacitance is given by

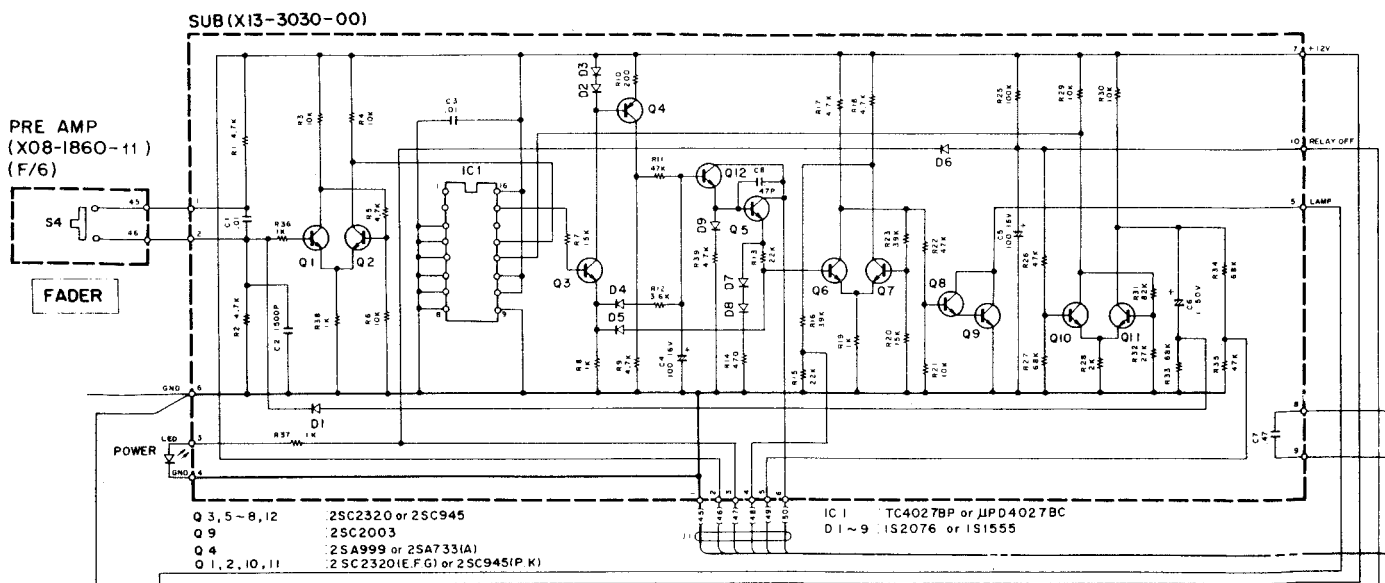
$$C_{IN} = C \cdot R15 / (R13 + VR2) \quad (\mu F)$$

$C_{IN}$  corresponds to the capacitor in a conventional loudness control.

### Fader Circuit

The fader circuit is divided into two sections: one is on the SUB PCB (X13-3030-00) and the other on the PREAMP PCB (X08-1860-11) (C/6).

The circuit block on the SUB PCB controls fader operation; that is, it generates the fader control signals, the output relay signals and the fader relay switching signals, etc. The circuit block on the PREAMP PCB consists of a fader circuit whose amplification is controlled by a photocoupler and various relays.



## CIRCUIT DESCRIPTION

### 1. Circuit operation on the SUB PCB

Q10 and Q11 form a Schmitt circuit. Q10 is OFF and Q11 is ON immediately after the power has been turned ON. The Q10 collector level is "H" and the fader flip-flop R (Reset) terminal (IC1-12) level is also "H". Therefore, the level of the flip-flop Q (output) terminal (IC1-15) is "L". Since Q3, Q4, Q12 and Q5 are OFF, Q12 and Q5 collector currents do not flow. (These collector currents control attenuation of the fader circuit. The fader output is proportional to these collector current; when they are zero, fader output is zero). Q1 and Q2 also form a Schmitt circuit, and Q1 OFF and Q2 is ON. Therefore, the fader flip-flop CK terminal connected to the Q2's collector is supplied with a "L" level signal. Q6 and Q7 form another Schmitt circuit, and Q6 is OFF and Q8 and Q9 are ON. Since Q7 is ON, its collector level is "L".

After the power has been turned ON and C5 has been charged through R25, Q10 is turned ON and Q11 OFF. The Q11's collector level then rises and its variation is transferred to the Q1's base through C6 and D1. Thus, Q1 is turned ON and Q2 OFF. The Q2's collector level is "H", so the fader flip-flop CK terminal (IC1-13) level is "H" and the Q terminal (IC1-15) level is turned to "H". Since Q3 is ON, current flows through Q4 to charge C4. Therefore, Q12 is turned ON first, then Q5 is turned ON and their collector currents increase so that the fader circuit output level is gradually increased from maximum attenuation. The Q5's emitter current increases as its collector current increases and its emitter level rises. Thus, the Q6's base level increases to turn Q6 ON so that Q7 is OFF. Therefore, Q8 and Q9 are OFF and the Q7's collector level is "H". The fader circuit is disconnected from the signal at this time and the L-08C operates normally.

	Power ON (Fader SW pressed) → Listening			
Q10 Q11	OFF ON	ON OFF	ON OFF	ON OFF
Q1 Q2	OFF ON	ON → OFF OFF → ON	OFF ON	OFF ON
Q3, Q4	OFF	ON	ON	ON
Q12 Q15	OFF OFF	ON OFF	ON ON	ON ON
Q6 Q7	OFF ON	OFF ON	OFF → ON ON → OFF	ON OFF
Q8, Q9	ON	ON	ON → OFF	OFF
IC1-12(R) IC1-13(CK) IC1-15(Q)	H L L	L H → L H	L L H	L L H
C5 C6 C4				

When fader switch S4 is pressed while the fader circuit is at maximum attenuation (that is, when the output level is zero), a positive voltage is applied to the Q1's base and the operation described above is performed.

When fader switch S4 is pressed during normal listening, Q1 is turned ON and Q2 OFF. The fader flip-flop CK terminal level then rises to "H". The Q terminal level, which is "H" at this time, changes to "L". Therefore, Q3 and Q4 are turned OFF and C4 discharges through R12. At the same time Q6 is turned OFF so that Q8, Q9 and Q7 are turned ON. The Q12's and Q5's collector currents decrease as C4 discharges. Therefore, the fader output level decreases until the collector currents become zero and fader output ceases.

	Listening → Fader SW pressed → Output "0"		
Q10 Q11	ON OFF		
Q1 Q2	OFF ON	ON → OFF OFF → ON	OFF ON
Q3, Q4	ON	OFF	OFF
Q12 Q15	ON ON	ON → OFF OFF	OFF OFF
Q6 Q7	ON OFF	OFF ON	OFF ON
Q8, Q9	OFF	ON	ON
IC1-12(R) IC1-13(CK) IC1-15(Q)	L L H	L H → L L	L L L
C5 C6 C4			

### 2. Circuit operation on the PREAMP PCB

Five relays are employed on the PREAMP PCB as follows:

- RL1 .....Fader circuit output ON/OFF relay
- RL2, RL3 .....Switch the signal path between the fader circuit and the through circuit (for normal listening).
- RL4 .....Sigma drive ON/OFF
- RL5 .....Headphone circuit ON/OFF

A fader circuit consisting of variable output operational amplifiers and an LED-CdS device (PHC 1) is connected to the signal circuit only when the fader circuit is operating.





## CIRCUIT DESCRIPTION/ADJUSTMENT/REGLAGES/ABGLEICH

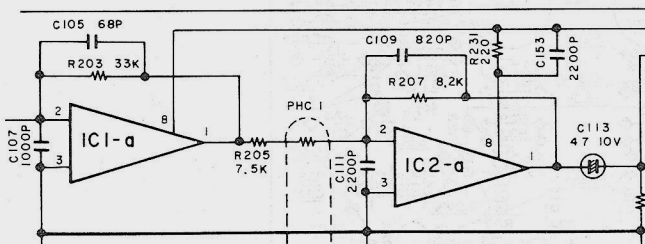
**RL4 circuit (Sigma drive ON/OFF)**

Relay RL4 completes  $\Sigma$  connections when the specified output cords are connected to the  $\Sigma$  drive output terminals.

When the specified cords are not connected, a positive voltage is applied to the Q107's base through R246 so that Q107 is ON and RL4 is energized. Therefore, R217 and R218 are shorted and the  $\ominus$  side of the  $\Sigma$  sensor is grounded. When the two specified cords are connected, the Q107's base is grounded so that Q107 is OFF. Therefore, RL4 is not energized and the  $\ominus$  side of the  $\Sigma$  sensor is separated from ground.

**RL5 circuit (headphone circuit)**

RL5 is not energized unless the headphone plug is inserted, so headphone amplifier (IC3) input is not connected to the signal line. When the plug is inserted, RL5 is energized and headphone amplifier input is connected to the fader circuit.

**Fader circuit**

## ADJUSTEMENT

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	AMP SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	OFFSET (PREAMP: X08-)	Connect a DC voltmeter between TP (L) and GND (TP (R) and GND).	—	VOLUME: 0	VR1 (L) VR2 (R)	0V	
2	OFFSET (AUDIO: X09-)	Connect a DC voltmeter between TP (L) and GND (TP (R) and GND).	—	VOLUME: 0	VR2 (L) VR3 (R)	0V	

## REGLAGES

N°.	ITEM	RACCORDEMENTS DU SYSTÈME	RÉGLAGE DE L'APPAREILLAGE	RÉGLAGE DU AMPLI	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1	OFFSET (PREAMP: X08-)	Connecter un voltmètre CC entre TP (L) et GND (TP (R) et GND).	—	VOLUME: 0	VR1 (L) VR2 (R)	0V	
2	OFFSET (AUDIO: X09-)	Connecter un voltmètre CC entre TP (L) et GND (TP (R) et GND).	—	VOLUME: 0	VR2 (L) VR3 (R)	0V	

## ABGLEICH

NR.	GEGENSTAND	SYSTEM-ANSCHLÜSSE	PRÜFEINRICHTUNG-EINSTELLUNG	EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	OFFSET (PREAMP: X08-)	Einen Gleichspannungsmesser zwischen TP (L) und GND (TP (R) und GND).	—	VOLUME: 0	VR1 (L) VR2 (R)	0V	
2	OFFSET (AUDIO: X09-)	Einen Gleichspannungsmesser zwischen TP (L) und GND (TP (R) und GND).	—	VOLUME: 0	VR2 (L) VR3 (R)	0V	

Both IC1 and IC2 are inverting amplifiers. IC1 is a buffer amplifier with a fixed gain of

$$A_{v1} = R203/R202 \approx -3 \text{ dB}$$

IC2 is a fader amplifier with variable gain. Its gain is given by

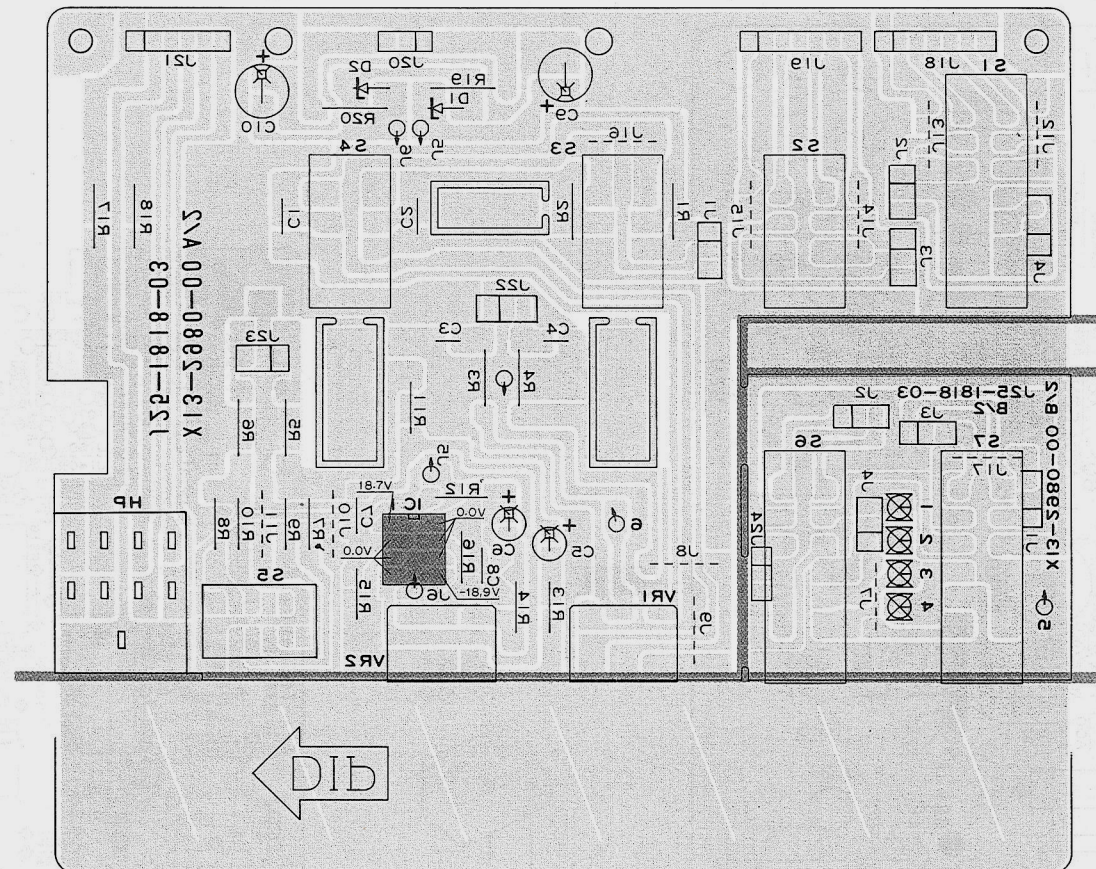
$$A_{v2} = R207/(R205 + \text{PHC1})$$

PHC1 is the resistance of CdS in photocoupler PHC1. The amount of light emitted by the LED increases and the resistance of CdS decreases as the LED current increases. Therefore,  $A_{v2}$  varies according to the LED current. The CdS resistance varies from a few ohms to a few M $\Omega$  so  $A_{v2}$  varies from 3 dB to more than -60 dB.

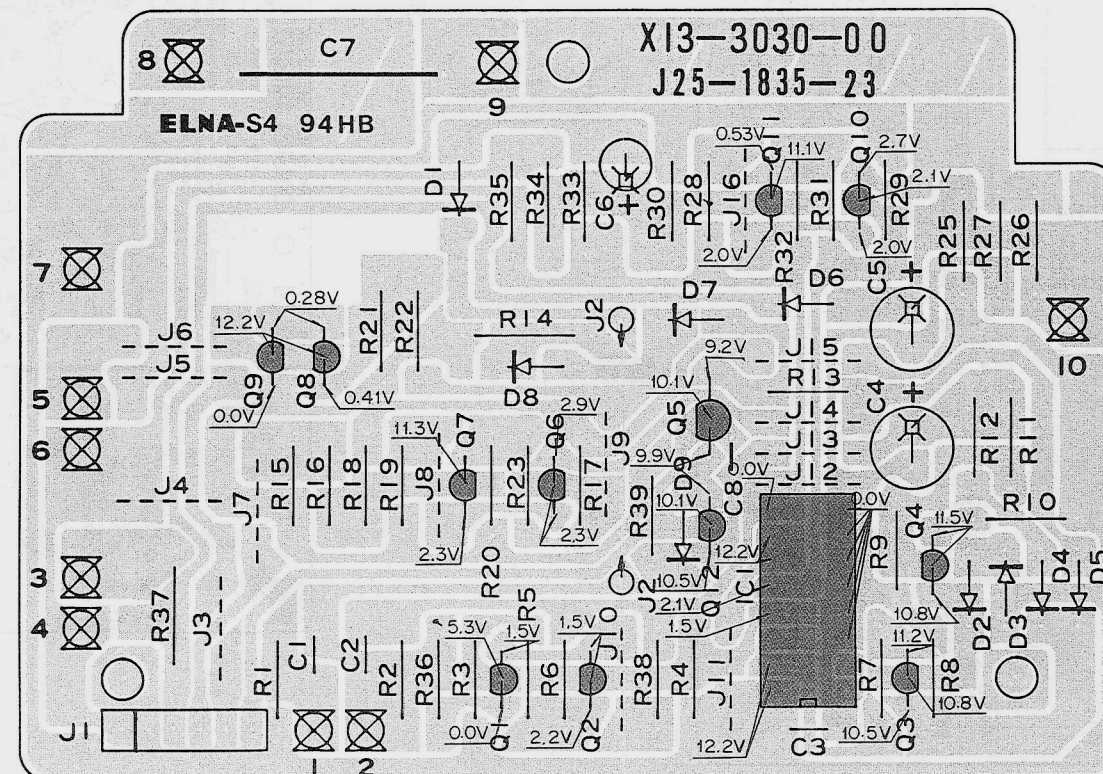
The LED current (the sum of the Q12's and Q5's collector currents) gradually increases when the state is changed from the fader operating state to the listening state and vice versa.

## PC BOARD

## SWITCH (X13-2980-00) Foil side view



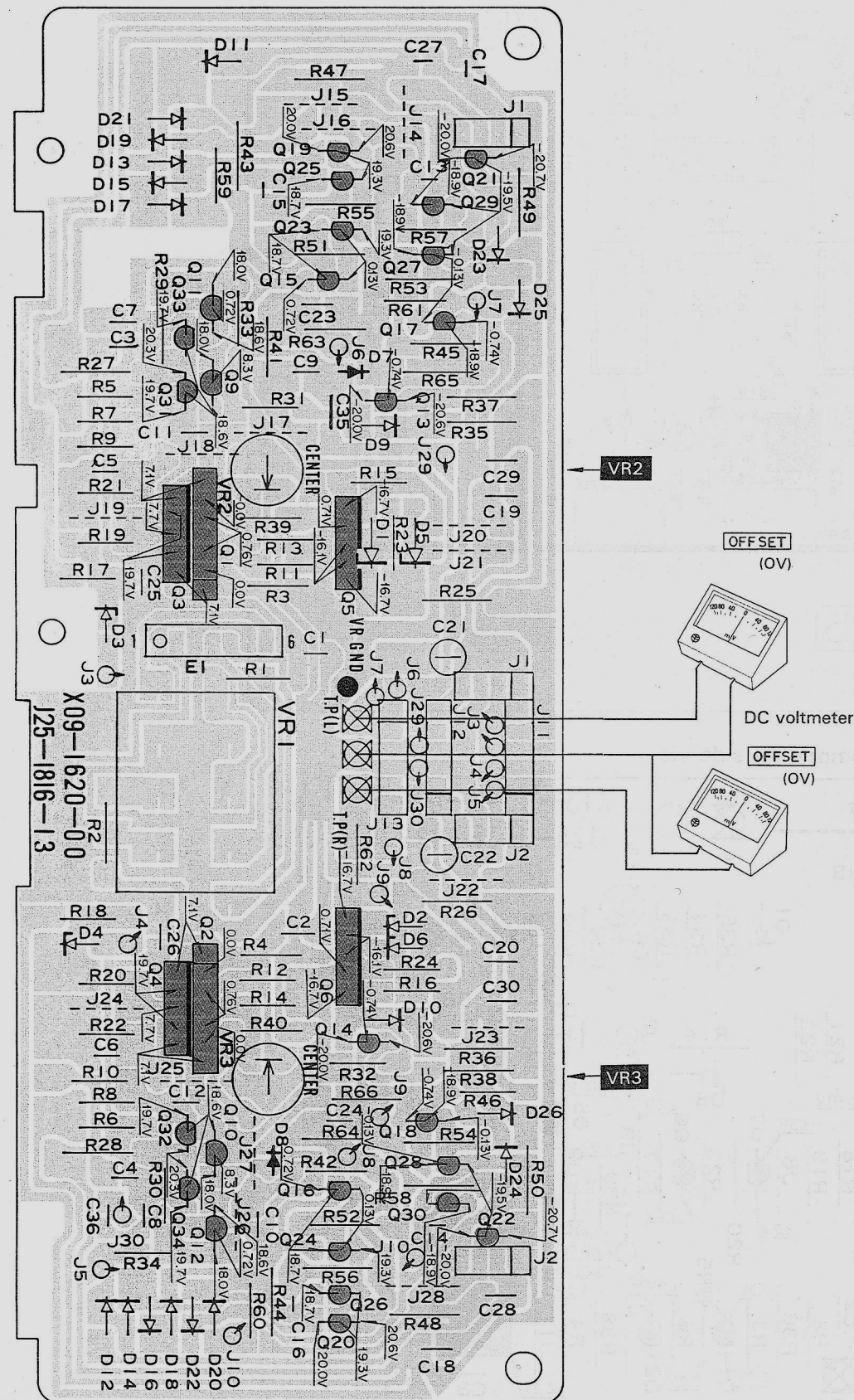
## SUB (X13-3030-00) Component side view



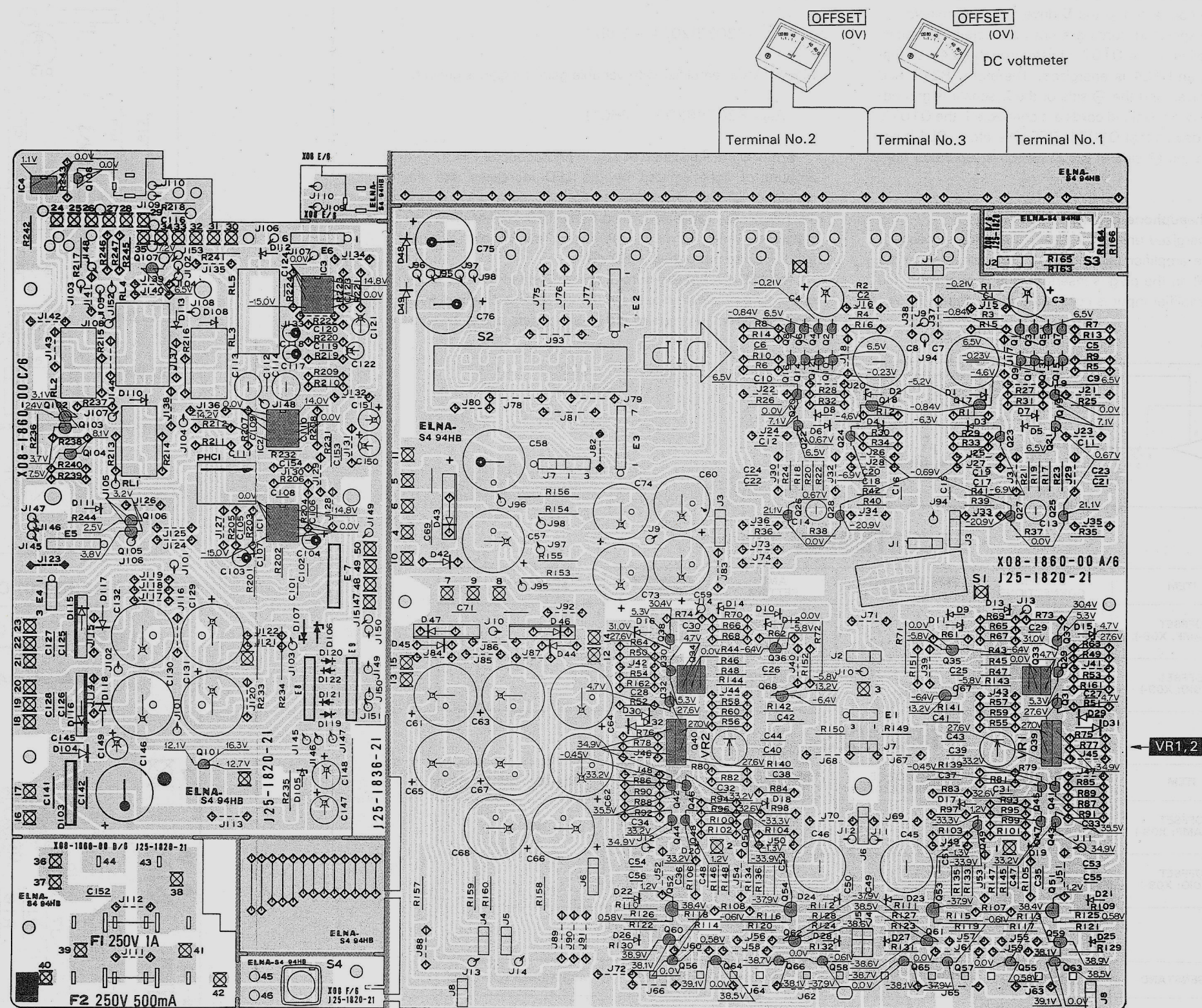


PC BOARD

PREAMP (X08-186\*.\*\*) Component side view

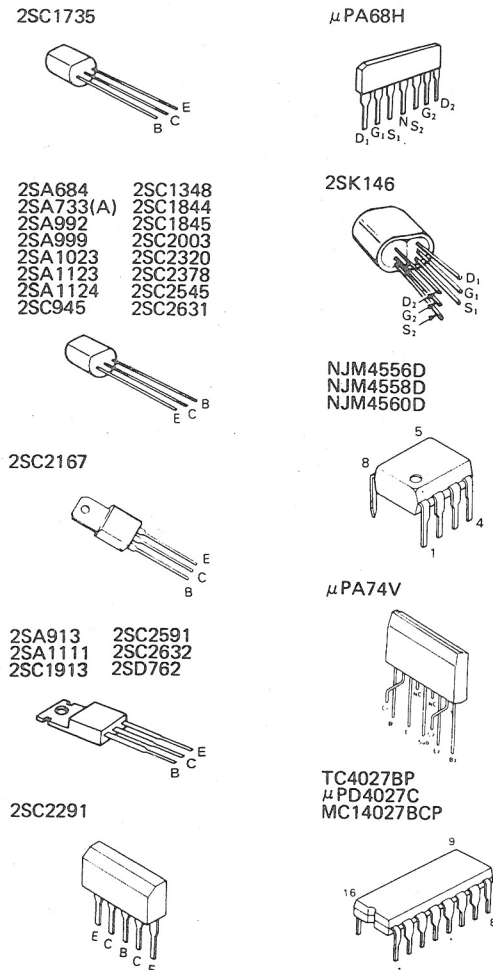


AUDIO (X09-162\*.\*\*) Component side view

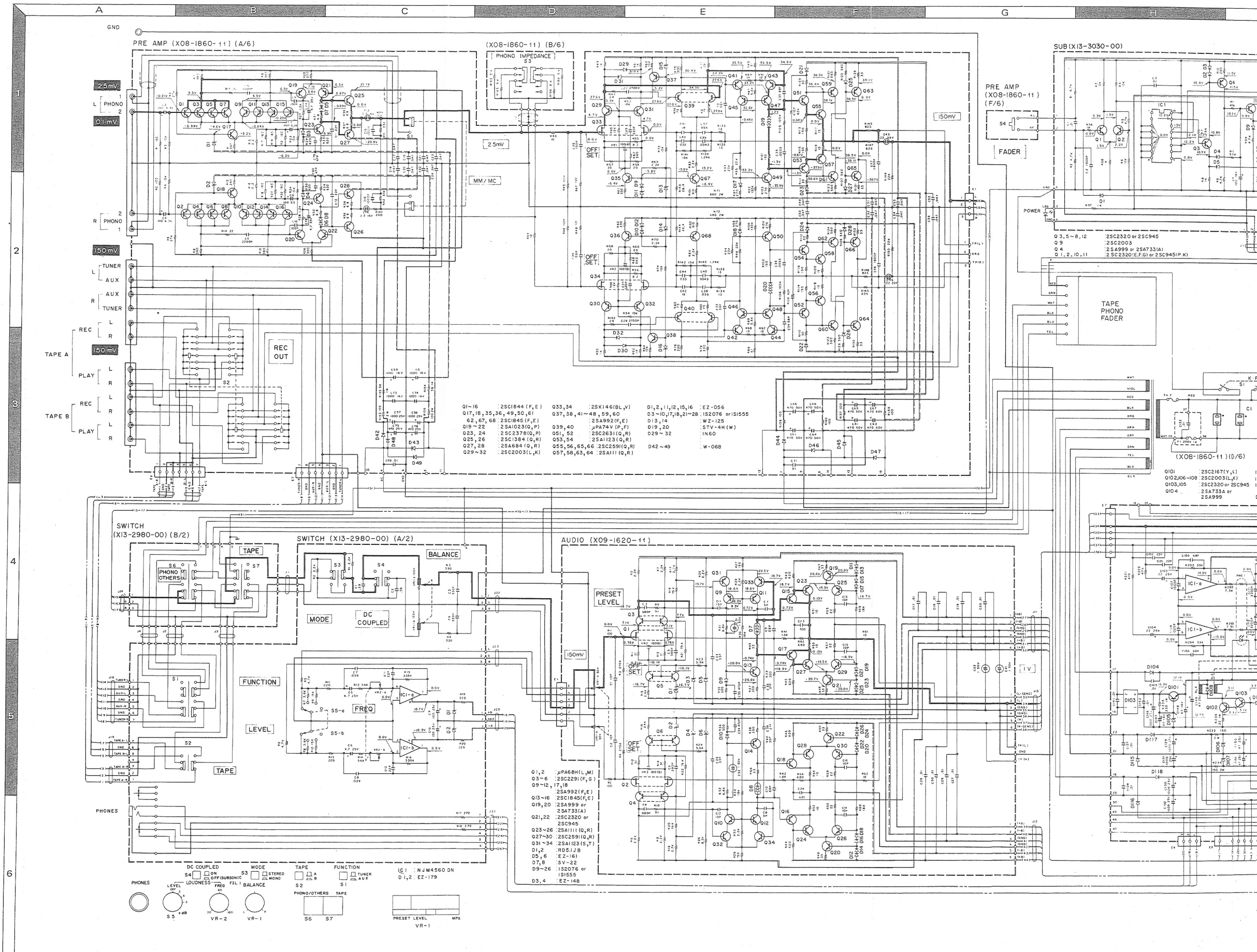


Refer to the schematic diagram for the value of resistors and capacitors.





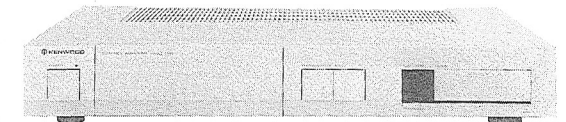
Name	Substitution
<b>(X08)</b>	
2SA733(A)	2SA999
2SA1111(Q, R)	2SA913(Q, R)
2SA1123(Q, R)	2SA1124(Q, R)
2SC1844(F, E)	2SC2545(D, E)
2SC2003(L, K)	2SC1735(D, E)
2SC2167(Y, G)	2SD762(O)
2SC2320	2SC945
2SC2591(Q, R)	2SC1913(Q, R)
2SC2631(Q, R)	2SC2632(Q, R)
W06B	V06B
1S2076	1S1555, 1S2076A
WZ-125	XZ-127
DZ-140	BZ-140
<b>(X09, X13)</b>	
2SA999	2SA733(A)
2SA1123(S, T)	2SA1124(S, T)
2SA1111(Q, R)	2SA913(Q, R)
2SC2320	2SC945
2SC2591(Q, R)	2SC1913(Q, R)
SV-22	STV-2H
1S2076	1S1555, 1S2076A
TC4027BP	μPD4027C, MC14027BCP





# CONTROL AMPLIFIER

# L-08C



## SPECIFICATIONS

### PERFORMANCE

Input Sensitivity/Impedance/Signal-to-Noise Ratio (IHF A Curve)	
Phono 1 (for MM use)	2.5 mV/33-47-100 kohms/ 90 dB
Phono 2 (for MC use)	0.1 mV/ 100 ohms/ 70 dB
Tuner/AUX	150 mV/ 25 kohms/106 dB
Tape Play	150 mV/ 25 kohms/106 dB
Maximum Input Voltage for Phono 1..320 mV (RMS), T.H.D. 0.0007% at 1,000 Hz	
Maximum Input Voltage for Phono 2..14 mV (RMS), T.H.D. 0.0007% at 1,000 Hz	
Frequency Response.....RIAA Standard Curve	
Phono 1 & 2	± 0.2 dB (20 Hz - 20 kHz)
Tuner, AUX & Tape Play	DC - 850 kHz (+0 dB, -3 dB)
Subsonic Filter.....18 Hz, 6 dB/Octave	
Transient Response	
Rise Time	
± 0.1 V	0.4 μs
± 1.0 V	0.4 μs
± 2.5 V	0.4 μs
Total Harmonic Distortion	
Tuner, AUX & Tape Play	
20 Hz - 20 kHz	0.0007% at 1 V Output
20 Hz - 20 kHz	0.0007% at 3 V Output
20 Hz - 20 kHz	0.0008% at 10 V Output
10 Hz - 100 kHz	0.0008% at 1 V Output
Phono 1 (for MM use)	
20 Hz - 20 kHz	0.0007% at 1 V Output (VOLUME at -30 dB)
Phono 2 (for MC use)	
20 Hz - 20 kHz	0.0007% at 1 V Output (VOLUME at -30 dB)
Output Voltage & Impedance	
1 V/less than 0.03 ohms with Sigma-Drive	
1 V/less than 10 ohms without Sigma-Drive	
Maximum Output.....10 V	
Load Impedance.....50 kohms	

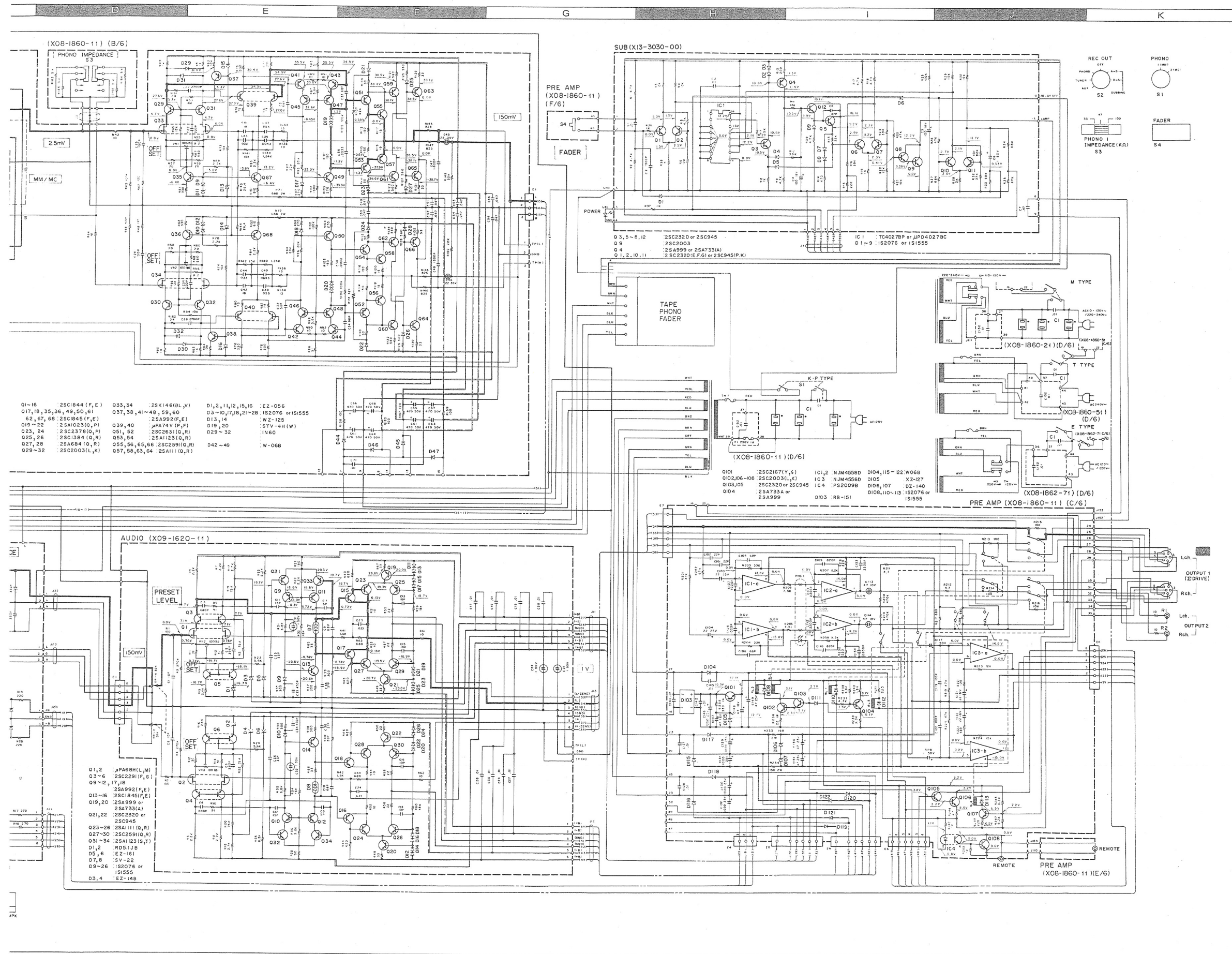
### GENERAL

Power Requirement	60 Hz 120 V (U.S.A. & Canada Model). Model sold elsewhere incorporates switch to accommodate 50/60 Hz 110-120 V/220-240 V
Power Consumption	4A (UL and CSA) 50 W (IEC)
AC Outlet	1 Unswitched, 2 Switched
Dimensions	W 17-5/16" (440 mm) H 2-15/16" (74 mm) D 15-1/4" (387 mm)
Weight (Net)	11.7 lbs (5.3 kg)
(Gross)	19.2 lbs (8.7 kg)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

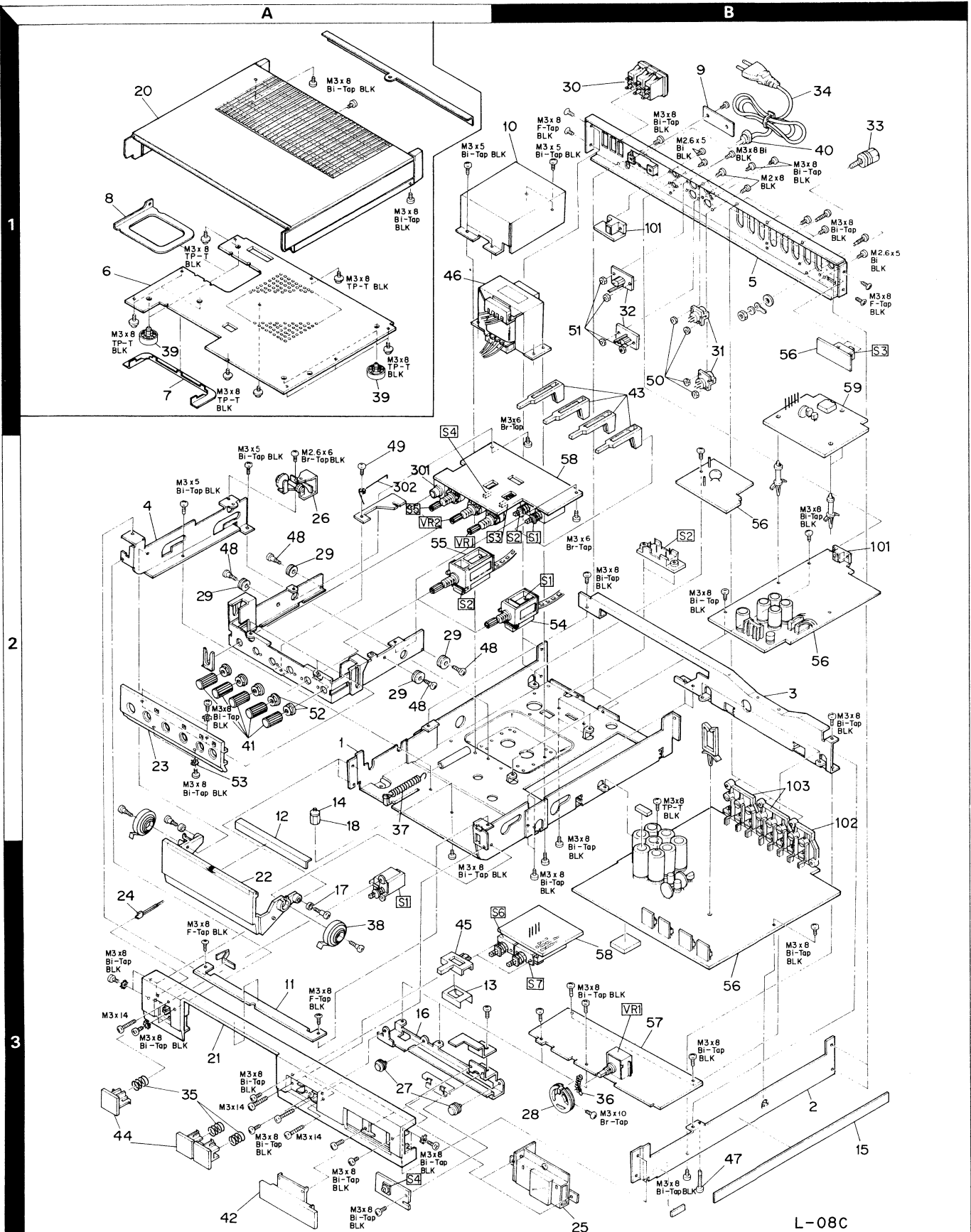
Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.





EXPLODED VIEW

PARTS LIST



M2X8 BLK :N30-2008-45  
M2.6X5 (Bi) BLK :N35-2605-45  
M2.6X6 (Bi-Top) BLK :N87-2606-45  
M3X5 (Bi-Top) BLK :N89-3005-45  
M3X6 (Br-Top) :N87-3006-46  
M3X8 (TP-T) BLK :N91-3008-45  
M3X8 (Bi-Top) BLK :N89-3008-45  
M3X8 (F-Top) BLK :N88-3008-45  
M3X10 (Br-Top) :N87-3010-46  
M3X14 :N30-3014-46

Ref. No.	Parts No.	Description	Re- marks	Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名 / 規格	備考	参照番号	部品番号	部品名 / 規格	備考
L-08C UNIT							
1	2A	MAIN CHASSIS		-	H12-0086-04	PACKING FIXTURE	
2	3B	METALLIC FRAME		-	H20-0458-04	COVER	
3	2B	METALLIC FRAME		-	H25-0078-04	BAG (235X315)	
4	2A	METALLIC FRAME		-	H25-0097-04	BAG	
5	1B	REAR PANEL		-	H39-0015-05	PACKING PARTS	
6	1A	BOTTOM PLATE		39	1A	FOOT	
7	1A	ESCUTCHEON		40	1B	BUSHING	MT
8	1A	ESCUTCHEON		40	1B	BUSHING	E
9	1B	MODEL NAME PLATE		40	1B	BUSHING	KP
10	1B	SHIELDING CASE		41	2A	KNOB	*
11	3A	REINFORCING HARDWARE		42	3A	KNOB (FADER)	*
12	2A	REINFORCING HARDWARE		43	1B	KNOB (PUSH BUTTON)	*
13	3A	SLIGER		44	3A	KNOB (POWER)	*
14	2A	CLOTH		45	3A	KNOB (PRESET)	*
15	2A	CLOTH		46	1A	POWER TRANSFORMER	*K
16	3A	MOUNTING HARDWARE		46	1A	POWER TRANSFORMER	M
17	3A	COLLAR		46	1A	POWER TRANSFORMER	TE
18	2A	BOSS		46	1A	POWER TRANSFORMER	P
20	1A	PLASTIC CABINET		-	N09-0100-14	SCREW	
21	3A	FRONT PANEL	*K	47	3B	SCREW	
21	3A	FRONT PANEL	PM	48	2A	SCREW (M2.6X14)	*
21	3A	FRONT PANEL	E	49	2A	SCREW	*
21	3A	FRONT PANEL	T	50	1B	HEXAGON NUT	
22	3A	POCKET DOOR	*	51	1B	HEXAGON NUT	
23	2A	FRONT PANEL(A)	*	52	2A	NUT	
-	B46-0055-30	WARRANTY CARD	P	53	2A	WASHER	*
-	B46-0060-00	WARRANTY CARD	T	R1	2	R4E-2210-05	RH 10 J 2E
-	B46-0061-30	WARRANTY CARD	K	54	2A,2B	REMOTE SWITCH SHAFT	*
-	B50-3286-00	INSTRUCTION MANUAL	*K	55	2A,2B	REMOTE SWITCH SHAFT	*
-	B50-3287-00	INSTRUCTION MANUAL	PM	S1	S40-2099-05	PUSH SWITCH	TE
-	B50-3289-00	INSTRUCTION MANUAL	T	S1	S40-3014-05	PUSH SWITCH	M
-	B50-3290-00	INSTRUCTION MANUAL	E	S1	S40-3015-05	PUSH SWITCH	KP
24	3A	LED	*	S2	S31-2053-05	SLIDE SWITCH	ME
25	3B	DISPLAY ASSY	*	56	2B,3B	PRE AMP PCB ASSY	*K
C1	C91-0023-C5	CERAMIC 0.01UF AC250V	M	56	2B,3B	PRE AMP PCB ASSY	P
C1	C91-0079-05	CERAMIC 0.01UF AC125V	KP	56	2B,3B	PRE AMP PCB ASSY	M
C1	C91-0079-05	CERAMIC 0.01UF AC125V	TE	56	2B,3B	PRE AMP PCB ASSY	T
26	2A	GEAR ASSY	*	56	2B,3B	PRE AMP PCB ASSY	E
27	3A	SMALL PULLEY	*	57	3B	AUDIO AMP PCB ASSY	*P
28	3B	PULLEY	*	57	3B	AUDIO AMP PCB ASSY	MT
29	2A	PULLEY	*	57	3B	AUDIO AMP PCB ASSY	E
-	E14-0006-05	PHONO PLUG	K	57	3B	AUDIO AMP PCB ASSY	K
30	1B	AC OUTLET	PM	58	2B,3B	SWITCH PCB ASSY	*
30	1B	AC OUTLET		59	1B	SUB PCB ASSY	*
31	1B	OUTPUT JACK		PREAMP (X08-186***)			
32	1B	PHONO JACK		C3	4	C90-0452-05	ELECTRO 100UF 6.3WV
33	1B	GND TERMINAL	KP	C5	6	C91-0103-05	POLYSTY 2200PF J
34	1B	POWER CORD	E	C7	8	C90-0452-05	ELECTRO 100UF 6.3WV
34	1B	POWER CORD	T	C9	10	C91-0088-05	POLYSTY 100PF K
34	1B	POWER CORD	M	C11	12	C91-0170-05	POLYSTY 22PF K
35	3A	COILED SPRING	*	C13	14	C90-0529-05	LL-ELEC 3.3UF 16WV
36	3B	COILED SPRING		C15	16	C91-0100-05	POLYSTY 1000PF J
37	2A	COILED SPRING		C17	24	C55-1747-38	CERAMIC 0.047UF Z
38	3A	SPIRAL SPRING		C25	26	C91-0090-05	POLYSTY 150PF J
-	H01-3250-04	CARTON BOX		C27	28	C91-0104-05	POLYSTY 2700PF J
-	H10-1570-02	POLYSTYRENE FIXTURE		C29	30	C91-0092-05	POLYSTY 220PF J
-	H12-0082-04	PACKING FIXTURE		C31	32	C91-0175-05	POLYSTY 56PF K
-	H12-0083-04	PACKING FIXTURE		C33	34	C91-0176-05	POLYSTY 68PF K
-				C35	36	C49-2033-25	MYLAR 0.0033UF J
-				C37	38	C49-2056-34	MYLAR 0.056UF G

K: U.S.A. U: PX E: Europe M: Other area  
P: Canada T: England \*: New parts

## PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
L-08C UNIT			
1 2A	-	MAIN CHASSIS	
2 3B	-	METALLIC FRAME	
3 2B	-	METALLIC FRAME	
4 2A	-	METALLIC FRAME	
5 1B	-	REAR PANEL	
6 1A	-	BOTTOM PLATE	
7 1A	-	ESCUTCHEON	
8 1A	-	ESCUTCHEON	
9 1B	-	MODEL NAME PLATE	
10 1B	-	SHIELDING CASE	
11 3A	-	REINFORCING HARDWARE	
12 2A	-	REINFORCING HARDWARE	
13 3A	-	SLIGER	
14 2A	-	CLOTH	
15 2A	-	CLOTH	
16 3A	-	MOUNTING HARDWARE	
17 3A	-	COLLAR	
18 2A	-	BOSS	
20 1A	A02-0072-11	PLASTIC CABINET	*K
21 3A	A20-1751-12	FRONT PANEL	PM
21 3A	A20-1751-12	FRONT PANEL	E
21 3A	A20-1751-12	FRONT PANEL	T
21 3A	A20-1752-12	FRONT PANEL	*
22 3A	A53-0033-13	PUCKET DOOR	*
23 2A	A53-0034-03	FRONT PANEL(A)	*
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B50-3286-00	INSTRUCTION MANUAL	*K
-	B50-3287-00	INSTRUCTION MANUAL	PM
-	B50-3289-00	INSTRUCTION MANUAL	T
-	B50-3290-00	INSTRUCTION MANUAL	E
24 3A	B30-0265-05	LED	*
25 3B	B38-0024-05	DISPLAY ASSY	*
C1	C91-0023-05	CERAMIC 0.01UF AC250V	M
C1	C91-0079-05	CERAMIC 0.01UF AC125V	KP
C1	C91-0079-05	CERAMIC 0.01UF AC125V	TE
26 2A	D13-0219-05	GEAR ASSY	*
27 3A	D15-0175-05	SMALL PULLEY	*
28 3B	D15-0180-13	PULLEY	*
29 2A	D15-0181-04	PULLEY	*
-	E14-0006-05	PHONO PLUG	K
30 1B	E03-0017-05	AC OUTLET	PM
30 1B	E03-0031-05	AC OUTLET	
31 1B	E06-0605-05	OUTPUT JACK	
32 1B	E13-0115-15	PHONO JACK	
33 1B	E21-0149-05	GND TERMINAL	KP
34 1B	E30-0181-05	POWER CORD	E
34 1B	E30-0459-05	POWER CORD	T
34 1B	E30-0587-15	POWER CORD	M
34 1B	E30-0685-05	POWER CORD	
35 3A	G01-0407-04	COILED SPRING	*
36 3B	G01-0409-04	COILED SPRING	
37 2A	G01-0410-04	COILED SPRING	
38 3A	G02-0081-04	SPIRAL SPRING	
-	H01-3250-04	CARTON BOX	
-	H10-1570-02	POLYSTYRENE FIXTURE	
-	H12-0082-04	PACKING FIXTURE	
-	H12-0083-04	PACKING FIXTURE	
Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名 / 規格	備考
-	H12-0086-04	PACKING FIXTURE	
-	H20-0458-04	COVER	
-	H25-0078-04	BAG (235X315)	
-	H25-0097-04	BAG	
-	H39-0015-05	PACKING PARTS	
39 1A	J02-0088-05	FOOT	MT
40 1B	J41-0033-05	BUSHING	E
40 1B	J41-0033-05	BUSHING	KP
40 1B	J41-0034-05	BUSHING	
41 2A	K23-0352-04	KNOB	*
42 3A	K27-0195-14	KNOB (FADER)	*
43 1B	K27-0196-04	KNOB (PUSH BUTTON)	*
44 3A	K27-0197-14	KNOB (POWER)	*
45 3A	K29-0384-14	KNOB (PRESET)	*
46 1A	L01-2221-05	POWER TRANSFORMER	*K
46 1A	L01-2225-05	POWER TRANSFORMER	M
46 1A	L01-2226-05	POWER TRANSFORMER	TE
46 1A	L01-2227-05	POWER TRANSFORMER	P
-	N09-0100-14	SCREW	
47 3B	N09-0292-05	SCREW	*
48 2A	N09-0293-05	SCREW (M2.6X14)	*
49 2A	N09-0372-04	SCREW	
50 1B	N10-2020-46	HEXAGON NUT	
51 1B	N10-2030-46	HEXAGON NUT	
52 2A	N14-0123-05	NUT	*
53 2A	N19-0308-05	WASHER	*
R1 2	R4E-2210-05	RN 10 J 2E	*
54 2A,2B	S90-0052-05	REMOTE SWITCH SHAFT	*
55 2A,2B	S90-0053-05	REMOTE SWITCH SHAFT	*
S1	S40-2099-05	PUSH SWITCH	TE
S1	S40-3014-05	PUSH SWITCH	M
S1	S40-3015-05	PUSH SWITCH	KP
S2	S31-2053-05	SLIDE SWITCH	ME
56 2B,3B	X08-1860-11	PRE AMP PCB ASSY	*K
56 2B,3B	X08-1860-11	PRE AMP PCB ASSY	P
56 2B,3B	X08-1860-21	PRE AMP PCB ASSY	M
56 2B,3B	X08-1860-51	PRE AMP PCB ASSY	T
56 2B,3B	X08-1862-71	PRE AMP PCB ASSY	E
57 3B	X09-1620-00	AUDIO AMP PCB ASSY	*P
57 3B	X09-1620-00	AUDIO AMP PCB ASSY	MT
57 3B	X09-1620-00	AUDIO AMP PCB ASSY	E
57 3B	X09-1620-11	AUDIO AMP PCB ASSY	K
58 2B,3B	X13-2980-00	SWITCH PCB ASSY	*
59 1B	X13-3030-00	SUB PCB ASSY	*
PREAMP (X08-186***)			
C3 4	C90-0452-05	ELECTRO 100UF 6.3WV	
C5 6	C91-0103-05	POLYSTY 2200PF J	
C7 8	C90-0452-05	ELECTRO 100UF 6.3WV	
C9 10	C91-0088-05	POLYSTY 100PF K	
C11 12	C91-0170-05	POLYSTY 22PF K	
C13 14	C90-0529-05	LL-ELEC 3.3UF 16WV	*
C15 16	C91-0100-05	POLYSTY 1000PF J	
C17 24	C55-1747-38	CERAMIC 0.047UF Z	
C25 26	C91-0090-05	POLYSTY 150PF J	
C27 28	C91-0104-05	POLYSTY 2700PF J	
C29 30	C91-0092-05	POLYSTY 220PF J	
C31 32	C91-0175-05	POLYSTY 56PF K	
C33 34	C91-0176-05	POLYSTY 68PF K	
C35 36	C49-2033-25	MYLAR 0.0033UF J	
C37 38	C49-2056-34	MYLAR 0.056UF G	

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## PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C39 40	C49-2043-24	MYLAR 0.0043UF G	
C41 42	C49-2018-44	MYLAR 0.18UF G	
C43 44	C49-2033-34	MYLAR 0.033UF G	
C45 46	C90-0528-05	LL-ELEC 22UF 35WV	*
C47 48	C91-0102-05	POLYSTY 1800PF J	
C49 56	C55-1747-38	CERAMIC 0.047UF Z	
C57 58	C90-0423-05	ELECTRO 1000UF 25WV	
C59 60	C90-0537-05	ELECTRO 1000UF 16WV	
C61 68	C90-0525-05	ELECTRO 470UF 50WV	*
C69	C54-2710-39	CERAMIC 0.01UF P	
C71	C54-2710-39	CERAMIC 0.01UF P	
C73 74	C90-0537-05	ELECTRO 1000UF 16WV	
C75 76	C90-0556-05	ELECTRO 470UF 25WV	
C77 78	C90-0457-05	ELECTRO 4.7UF 35WV	
C79 80	C71-1747-05	CERAMIC 47PF J	
C101,102	C91-0170-05	POLYSTY 22PF K	
C103,104	C24-1422-67	ELECTRO 22UF 25WV	
C105,106	C71-1768-05	CERAMIC 68PF J	
C107,108	C52-1710-26	CERAMIC 0.001UF K	
C109,110	C52-1782-16	CERAMIC 820PF K	
C111,112	C52-1722-26	CERAMIC 0.0022UF K	
C113,114	C26-1047-67	NP-ELEC 47UF 10WV	
C117,118	C24-1710-57	ELECTRO 1UF 50WV	
C119,120	C71-1710-15	CERAMIC 100PF J	
C121,122	C24-1222-67	ELECTRO 22UF 16WV	
C127,128	C54-2710-39	CERAMIC 0.01UF P	
C129-132	C90-0423-05	ELECTRO 1000UF 25WV	
C141,142	C54-2710-39	CERAMIC 0.01UF P	
C145	C54-2710-39	CERAMIC 0.01UF P	
C146	C24-1410-87	ELECTRO 1000UF 25WV	
C147,148	C24-1247-67	ELECTRO 47UF 16WV	
C149-151	C24-1447-67	ELECTRO 470UF 25WV	
C152	C91-0023-05	CERAMIC 0.01UF AC250V	M
C152	C91-0079-05	CERAMIC 0.01UF AC125V	KP
C152	C91-0079-05	CERAMIC 0.01UF AC125V	TE
C153,154	C52-1722-26	CERAMIC 0.0022UF K	
101 1B	E03-0006-05	DC JACK (REMOTE)	*
102 2B	E13-0430-05	PHONO JACK	
103 2B	E13-0612-05	PHONO JACK	
F1	F05-1021-05	FUSE	K
-	J13-0041-05	FUSE HOLDER	K
R1 2	R48-2210-15	RN 100 J 2E	
R3 4	R48-2210-35	RN 10K J 2E	
R17 22	R48-6216-15	RN 160 J 2E	
R23 24	R48-6210-35	RN 10K J 2E	
R25 26	R43-1230-15	FL-PROOF RD300 J 2E	
R35 38	R43-1268-95	FL-PROOF RD6.8 J 2E	
R39 40	R48-2220-15	RN 200 J 2E	
R41 42	R48-2233-35	RN 33K J 2E	
R43 44	R48-2210-05	RN 10 J 2E	
R45 46	R48-2210-45	RN 100K J 2E	
R47 48	R48-2212-15	RN 120 J 2E	
R71 72	R47-1568-15	FL-PROOF RS680 J 3D	
R109-112	R43-1230-05	FL-PROOF RD30 J 2E	
R113-116	R43-1215-15	FL-PROOF RD150 J 2E	
R117-120	R43-1215-05	FL-PROOF RD15 J 2E	
R121-128	R43-1256-15	FL-PROOF RD560 J 2E	
R129-132	R43-1233-05	FL-PROOF RD33 J 2E	
R133-136	R48-6213-05	RN 13 J 2E	
R139,140	R48-2124-13	RN 1.24K F 2E	
R141,142	R48-2150-23	RN 15K F 2E	
R143,144	R48-2264-93	RN 26.4 F 2E	
R145-148	R48-2825-03	RN 825 F 2E	
R149,150	R48-2222-35	RN 22K J 2E	
R153	R47-1510-15	FL-PROOF RS100 J 3D	
R154,155	R47-1456-05	FL-PROOF RS56 J 3A	
R156	R47-1510-15	FL-PROOF RS100 J 3D	
R157-160	R43-1210-15	FL-PROOF RD100 J 2E	
R163,164	R48-2251-35	RN 51K J 2E	
R165,166	R48-2291-35	RN 91K J 2E	
R201,202	R48-2247-35	RN 47K J 2E	
R217,218	R48-2268-15	RN 680 J 2E	
R231,232	R43-1222-15	FL-PROOF RD220 J 2E	
R233,234	R47-1515-15	FL-PROOF RS150 J 3D	
R235	R47-1433-15	FL-PROOF RS330 J 3A	
R236	R47-1422-05	FL-PROOF RS22 J 3A	
R241	R43-1222-15	FL-PROOF RD220 J 2E	
R242	R43-1210-25	FL-PROOF RD1K J 2E	
R244	R43-1247-05	FL-PROOF RD47 J 2E	
R245	R43-1222-15	FL-PROOF RD220 J 2E	
VR1 2	R12-0502-05	TRIMMING POT. 100(B)	
RL1 -3	S51-2039-05	RELAY	*
RL4	S51-4039-05	RELAY	*
RL5	S51-2046-05	RELAY	*
S1	S90-0054-05	SLIDE SWITCH	*
S2	S90-0038-05	SLIDE SWITCH	*
S3	S31-2059-05	SLIDE SWITCH (IMP)	
S4	S40-1012-05	PUSH SWITCH	
IC4	T95-0005-05	PHOTO COUPLER	*
PHC1	T95-0006-05	PHOTO COUPLER	*
D1 2	V11-4109-90	EZ-056	
D3 -10	V11-0271-05	1S2076,1S1555	
D11 12	V11-4109-90	EZ-056	
D13 14	V11-4104-80	WZ-125	
D15 16	V11-4109-90	EZ-056	
D17 18	V11-0271-05	1S2076,1S1555	
D19 20	V11-5100-10	STV-4H(W)	
D21 -28	V11-0271-05	1S2076,1S1555	
D29 -32	V11-0051-05	1N60	
D42 -49	V11-0295-05	W06B	
D103	V11-5100-60	RB-151	
D104	V11-0295-05	W06B	
D105	V11-4101-80	XZ-127	
D106,107	V21-0006-05	DZ-140	
D108	V11-0271-05	1S2076,1S1555	
D110-113	V11-0271-05	1S2076,1S1555	
D115-122	V11-0295-05	W06B	
IC1 2	V30-1020-26	NJM4558D	*
IC3	V30-0527-10	NJM4556D	*
Q1 -16	V03-1844-10	2SC1844(F,E)	
Q17 18	V03-1845-10	2SC1845(F,E)	
Q19 22	V01-1023-20	2SA1023(Q,P)	
Q23 24	V03-2378-20	2SC2378(Q,P)	
Q25 26	V03-0373-05	2SC1384(Q,R)	
Q27 28	V01-0130-05	2SA684(Q,R)	
Q29 32	V03-2003-30	2SC2003(L,K)	
Q33 34	V09-0141-00	2SK146	
Q35 36	V03-1845-10	2SC1845(F,E)	
Q37 38	V01-0992-10	2SA992(F,E)	
Q39 40	V30-0554-10	UPA74V(P,F)	

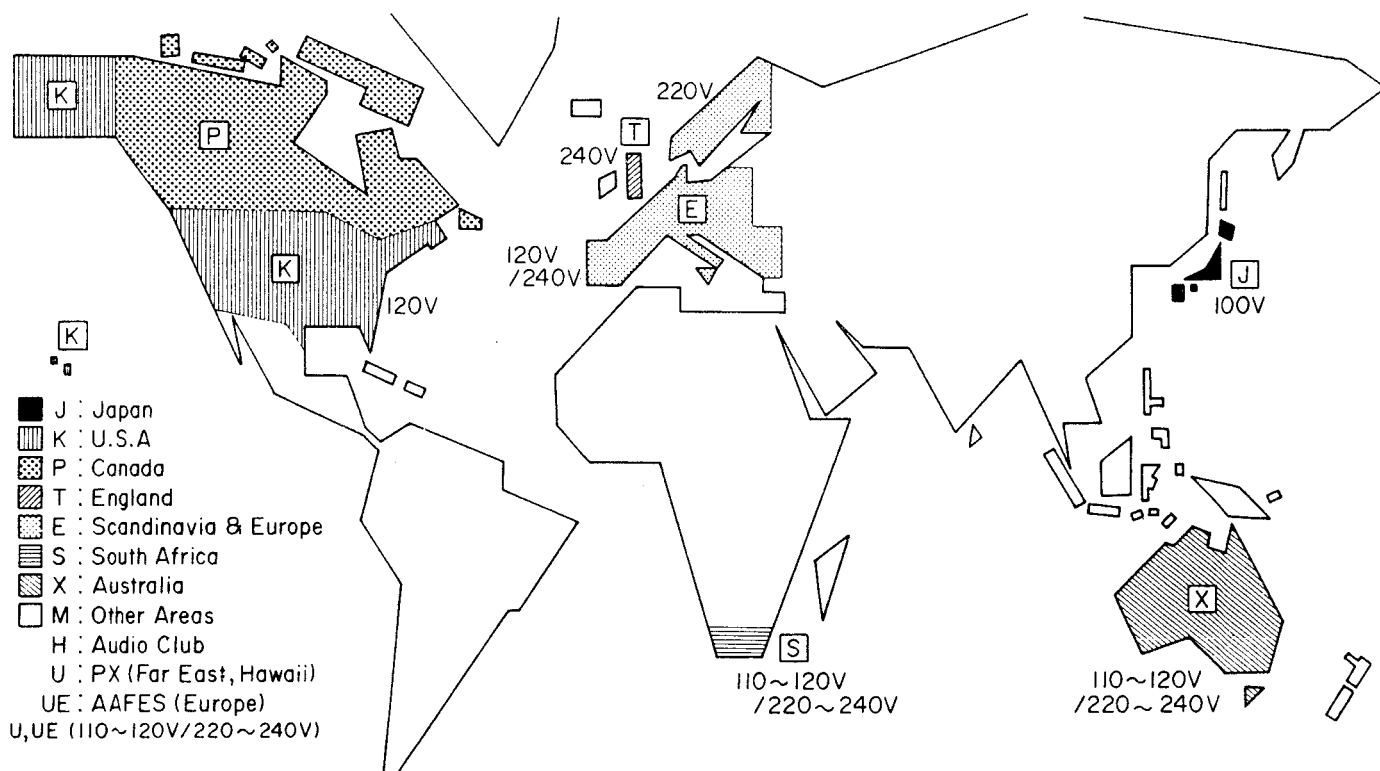
K: U.S.A. U: PX E: Europe M: Other area  
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## PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
Q41 -48	V01-0992-10	2SA992(F,E)	
Q49 ,50	V03-1845-10	2SC1845(F,E)	
Q51 ,52	V03-2631-10	2SC2631(Q,R)	
Q53 ,54	V01-1123-20	2SA1123(Q,R)	
Q55 ,56	V03-2591-10	2SC2591(Q,R)	
Q57 ,58	V01-1111-10	2SA1111(Q,R)	
Q59 ,60	V01-0992-10	2SA992(F,E)	
Q61 ,62	V03-1845-10	2SC1845(F,E)	
Q63 ,64	V01-1111-10	2SA1111(Q,R)	
Q65 ,66	V03-2591-10	2SC2591(Q,R)	
Q67 ,68	V03-1845-10	2SC1845(F,E)	
Q101	V03-2167-10	2SC2167(Y,G)	
Q102	V03-2003-30	2SC2003(L,K)	
Q103	V03-2320-00	2SC2320,2SC945	
Q104	V01-0733-90	2SA733(A)	
Q105	V03-2320-00	2SC2320,2SC945	
Q106-108	V03-2003-30	2SC2003(L,K)	
AUDIO (X09-162-***)			
C1 ,2	C91-0166-05	POLYSTY 12PF F	
C3 ,4	C52-1768-16	CERAMIC 680PF K	
C5 ,6	C91-0095-05	POLYSTY 390PF J	
C7 ,8	C91-0161-05	POLYSTY 5PF F	
C9 ,10	C91-0176-05	POLYSTY 68PF K	
C11 ,12	C71-1715-05	CERAMIC 15PF J	
C13 -16	C71-1710-02	CERAMIC 10PF D	
C17 -20	C55-1710-38	CERAMIC 0.01UF Z	
C21 ,22	C90-0554-05	LL-ELEC 0.1UF 50WV	*
C23 ,24	C49-2010-35	MYLAR 0.01UF J	
C25 ,26	C91-0172-05	POLYSTY 33PF K	
C27 -30	C55-1710-38	CERAMIC 0.01UF Z	
C31 ,32	C90-0553-05	LL-ELEC 1UF 50WV	*
C33 ,34	C52-1747-16	CERAMIC 470PF K	
C35 ,36	C91-0171-05	POLYSTY 27PF K	
R1 ,2	R48-2210-15	RN 100 J 2E	
R3 ,4	R48-2227-45	RN 270K J 2E	
R25 ,26	R43-1282-25	FL-PROOF RD8,2K J 2E	
R27 ,28	R43-1215-15	FL-PROOF RD150 J 2E	
R35 -38	R43-1230-15	FL-PROOF RD300 J 2E	
R39 ,40	R48-6230-15	RN 300 J 2E	
R41 ,42	R48-6216-25	RN 1,6K J 2E	
R47 -50	R43-1233-05	FL-PROOF RD33 J 2E	
R51 -54	R43-1210-05	FL-PROOF RD10 J 2E	
R55 -58	R43-1222-05	FL-PROOF RD22 J 2E	
R61 ,62	R48-2210-05	RN 10 J 2E	
R63 ,64	R48-2268-15	RN 680 J 2E	
R65 ,66	R43-1233-05	FL-PROOF RD33 J 2E	
VR1	R10-4006-05	POTENTIOMETER 50K	*
VR2 ,3	R12-0502-05	TRIMMING POT. 100(B)	
D1 ,2	V11-1202-40	RD5,1JB	
D3 ,4	V11-4111-30	EZ-148	
D5 ,6	V11-4110-00	EZ-161	
D7 ,8	V11-2200-10	SV-22	
D9 -26	V11-0271-05	1S2076,1S1555	
Q1 ,2	V09-0145-30	UPA68H(L,M)	
Q3 -6	V03-2291-20	2SC2291(F,G)	
Q9 -12	V01-0992-10	2SA992(F,E)	
Q13 -16	V03-1845-10	2SC1845(F,E)	
Q17 ,18	V01-0992-10	2SA992(F,E)	
Q19 ,20	V01-0999-00	2SA999,2SA733(A)	
Q21 ,22	V03-2320-00	2SC2320,2SC945	
Q23 -26	V01-1111-10	2SA1111(Q,R)	
Q27 -30	V03-2591-10	2SC2591(Q,R)	
Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
Q31 -34	V01-1123-40	2SA1123(S,T)	
SWITCH (X13-2980-00)			
C1 ,2	C91-0180-05	MYLAR 0.39UF J	*
C3 ,4	C91-0094-05	POLYSTY 330PF J	
C5 ,6	C24-1447-57	ELECTRO 4.7UF 25WV	
C7 ,8	C91-0179-05	MYLAR 0.039UF J	*
C9 ,10	C24-1410-77	ELECTRO 100UF 25WV	
C11 ,12	C71-1722-05	CERAMIC 22pF J	
301 2A	E11-0082-05	PHONE JACK	*
302 2A	G01-0408-04	COILED SPRING	*
R1 ,2	R48-2222-25	RN 2,2K J 2E	
R3 ,4	R48-2233-15	RN 330 J 2E	
R5 ,6	R48-2247-25	RN 4.7K J 2E	
R17 ,18	R43-1227-15	FL-PROOF RD270 J 2E	
R19 ,20	R43-1222-15	FL-PROOF RD220 J 2E	
VR1	R06-5064-05	POTENTIOMETER 1000K	*
VR2	R06-6005-05	POTENTIOMETER	*
S1	S40-4035-05	PUSH SWITCH	*
S2 -4	S40-2121-05	PUSH SWITCH	*
S5	S29-2023-05	ROTARY WAFER SWITCH	*
S6 ,7	S40-4036-05	PUSH SWITCH	*
D1 ,2	V11-4110-10	EZ-179	
IC1	V30-0344-40	NJM4560D-N	
SUB (X13-3030-00)			
C1	C55-1710-38	CERAMIC 0.01UF Z	
C2	C52-1715-26	CERAMIC 0.0015UF K	
C3	C55-1710-38	CERAMIC 0.01UF Z	
C4 ,5	C24-1210-77	ELECTRO 100UF 16WV	
C6	C24-1710-57	ELECTRO 1UF 50WV	
C7	C49-2047-45	MYLAR 0.47UF J	
C8	C71-1747-05	CERAMIC 47PF J	
R14	R43-1247-15	FL-PROOF RD470 J 2E	
R37	R43-1210-25	FL-PROOF RD1K J 2E	
D1 -9	V11-0271-05	1S2076,1S1555	
IC1	V30-1050-06	TC4027BP,UPD4027BC	
Q1 ,2	V03-2320-20	2SC2320(E,F,G)	
Q1 ,2	V03-0293-05	2SC945(A)(P,K)	
Q3	V03-2320-00	2SC2320,2SC945(A)	
Q4	V01-0999-00	2SA999,2SA733(A)	
Q5 -8	V03-2320-00	2SC2320,2SC945(A)	
Q9	V03-2003-00	2SC2003,2SC945(A)	
Q10 ,11	V03-2320-80	2SC2320(E,F,G)	
Q10 ,11	V03-2320-80	2SC945(A)(P,K)	
Q12	V03-2320-00	2SC2320,2SC945(A)	

K: U.S.A. U: PX E: Europe M: Other area  
P: Canada T: England \*: New parts

## WORLD MAP & AREA CODE



### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

A product of

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